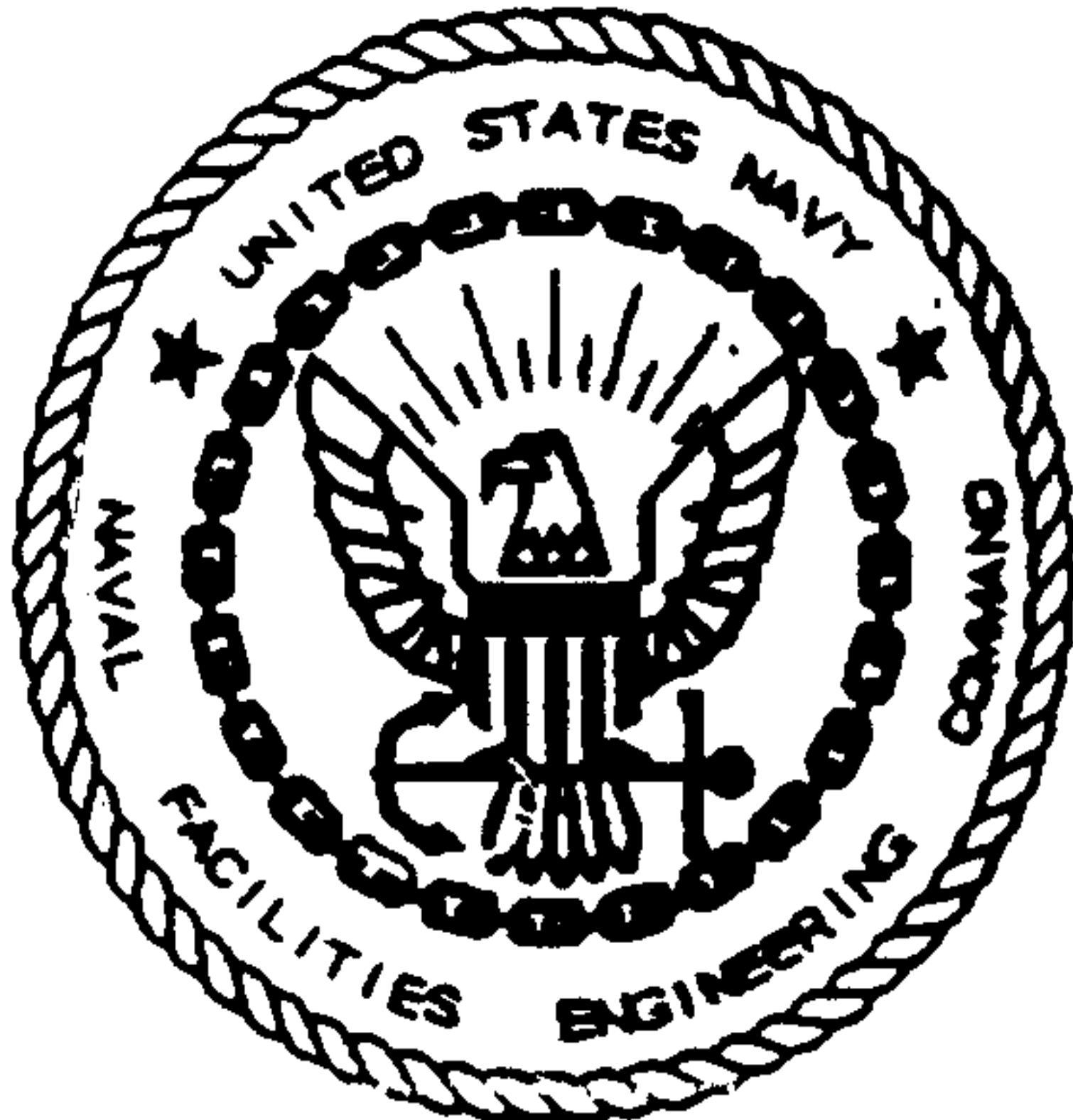


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NAS PENSACOLA  
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FINAL REMEDIAL INVESTIGATION REPORT SITE 38 VOLUME II NAS PENSACOLA FL  
9/30/1998  
ENSAFE/ALLEN AND HOSHALL

**FINAL REMEDIAL INVESTIGATION REPORT  
SITE 38  
NAVAL AIR STATION  
PENSACOLA, FLORIDA**



**VOLUME II  
(APPENDICES A-H)**

**SOUTHNAVFACENGCOM  
CONTRACT NUMBER: N62467-89-D-0318**

**CTO-059**

**Prepared for:**

**Comprehensive Long-Term  
Environmental Action Navy (CLEAN)  
Naval Air Station  
Pensacola, Florida**



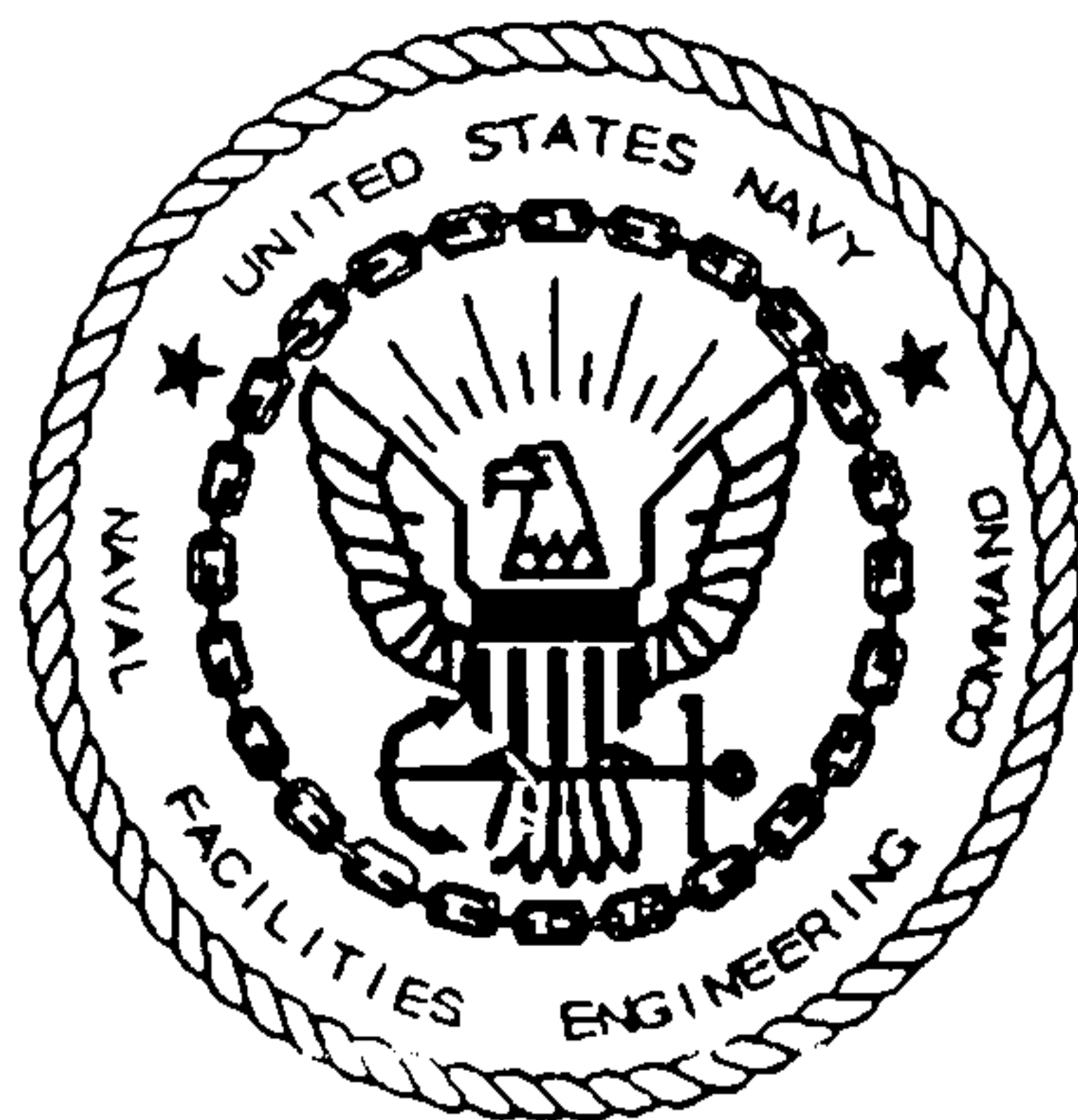
**Prepared by:**

**EnSafe Inc.  
5724 Summer Trees Drive  
Memphis, Tennessee 38134  
(901) 372-7962**

**September 30, 1998**



**FINAL REMEDIAL INVESTIGATION REPORT  
SITE 38  
NAVAL AIR STATION  
PENSACOLA, FLORIDA**



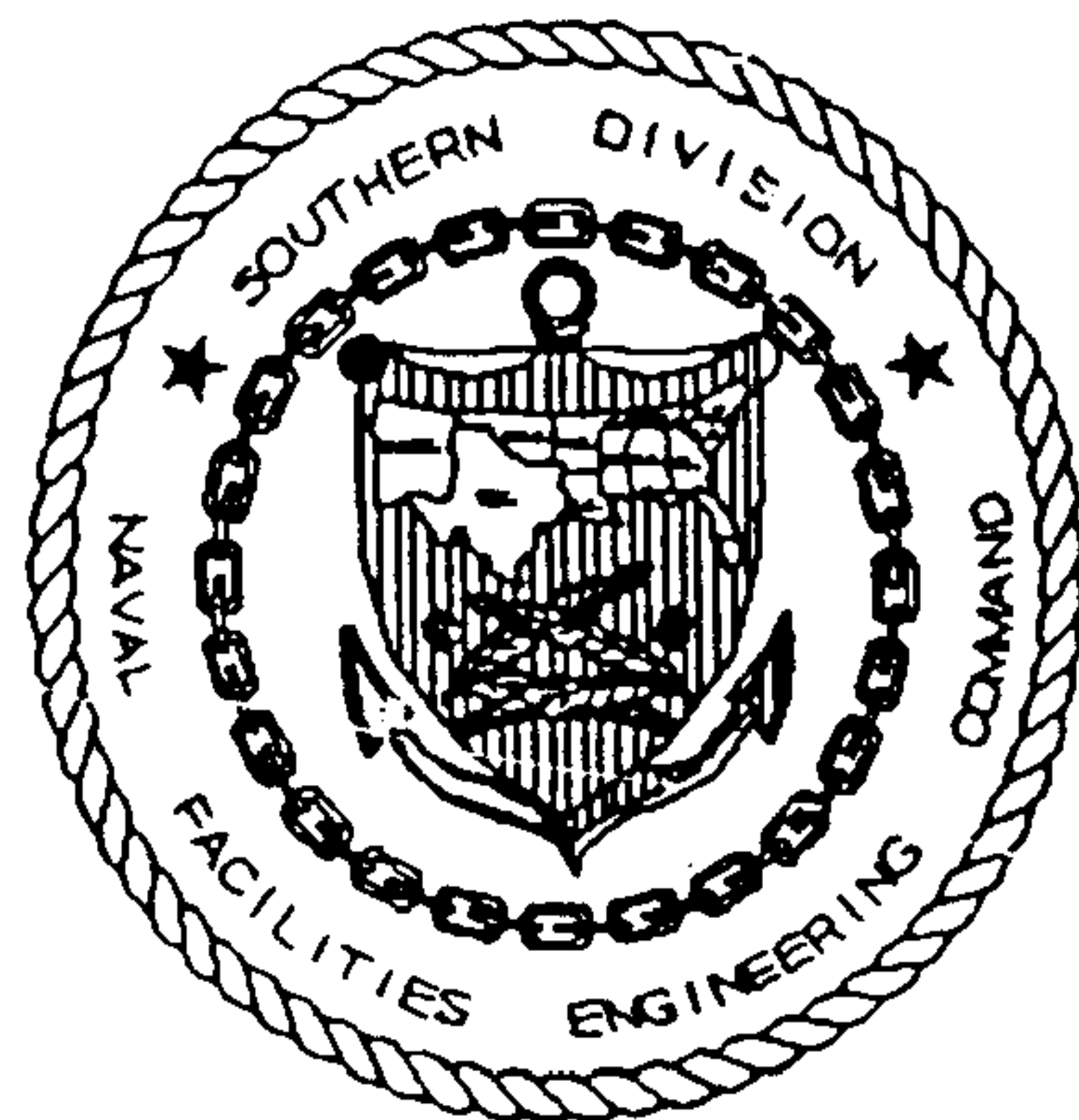
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**September 30, 1998**

## **Appendix A**

### **Telespection Report of the IWTP Sewer Line**

30 July, 1987

From: Code 461.3

To: Code 670

Via: Code 460

Subj: TELESPECTION OF THE INDUSTRIAL WASTE COLLECTION SYSTEM

Encl: (1) Condition Reports

(2) Updated Drawings

1. A telespection of the Industrial Waste Collection System was conducted on all lines eight inch (8") through eighteen (18") which had access to each end and could be cleaned and strung. The inspection consisted of inspecting piping and manholes for cracks, separations, infiltration (ground water and roots) low areas and cleanliness. During the course of inspection there were no major deficiencies noticed, only small amounts of groundwater seepage was detected. One section of line has several cracked areas. Cracks are dripping groundwater. This section is 12" V. C. and is located between manhole C-2 and manhole C-3 (NAVFAC Drawing #5152540 - Sheet 2 of 6). There is only one section that has root infiltration, (very small fiber roots, no groundwater infiltration noticed) NAVFAC Drawing #5152545, sheet 5 of 6. Two areas of the system could not be cleaned or inspected due to soft sand and heavily wooded terrain we could not get the jet wash unit or telespection van to the work site.

000001

These areas are located on NAVFAC Drawings #5152544, 45 and 46. The soft sand areas is 15" V. C. main that runs from lift station 3437 (manhole A-1 to manhole B-5, including 8" V. C. lateral from Building 3819, manhole B-1-A to manhole B-1) and 8" V. C. lateral from manhole B-3 to B-3-2. There are approximate 280 linear feet of 15" V. C. piping in this area. These lines could be cleaned and telespected if the equipment was towed to each work site. There are seven (7) manholes to be cleaned and inspected in this area.

2. The heavily wooded area is located south of Building 649. The lines affected are: 15" V. C. main from manhole B-5 to manhole B-7. NAVFAC Drawing #5152546. There are four (4) manholes to be cleaned and inspected in this area. There are approximate 356 L. F. of 15" V. C. piping in this area. This area has heavy sludge buildup and needs cleaning very badly. It is the main trunk line from Buildings 648, 649, 755 and 2691.

3. The 15" V. C. main running from manhole A-10 N. W. of Building 2662 on Chevalier Field to manhole A-4, south of lift station no. 2, Building 3437 and the 18" V. C. main, running from manhole A-4 to manhole A-1, at lift station no. 2, Building 3437, these lines could not be cleaned with the rental jet wash unit. The jet wash unit could only put out approximately 800 pounds to 1,000 pounds of water pressure. Most of these lines were washed several times. Several barrels of sludge, sand and paint strippings were removed from system. The wash unit could not penetrate some of these lines. There are approximately 2,438 L. F. of 15" V. C. piping and approximately 1,124 L. F. of 18" piping in this section. These lines are located on NAVFAC Drawings #5152543 and 44, sheet 3 of 6 and 4 or 6.

0000002



These lines need cleaning very badly. Lines could be cleaned more efficiently with a jet vacuum unit. The process we are using is very slow. Large amounts of debris are entering manholes and clogging the system. This debris has to be hand dipped from top side of manholes (manholes approximately 10 to 12 feet deep) there are fifteen (15) manholes to be cleaned and inspected in this area.

4. During the process of inspection NAVFAC Drawings were up-dated. New manholes and lines were located. There are two (2) open grate manholes in the system which allow large amounts of sand and rainwater to enter. These manholes are: Manhole A-7, located southwest corner of Building 3460, NAVFAC Drawing 5152543, and manhole B-7-D, located northwest of Building 755, NAVFAC Drawing 5152546. At manhole B-7-D, approximately three (3 each) 55 gallon drums of sand were removed from manhole and lines. The overall condition of the areas telespected is good. The entire system is overdue for cleaning.

5. A detailed Inspection Report showing condition of each area and manholes is submitted with this report. Also a set of NAVFAC Drawings #5152541 - 5152546, with corrections is submitted. See daily reports and NAVFAC Drawings for more details.

Reclean and telespect lines (Chevalier Field)

15" V.C. 2,438' L. F.

18" V. C. 1,124 L. F.            3,562 L. F.

Including 15 each manholes

0000003

Soft ground area, clean and telespect (possible)

8" V. C. 280 L. F.

15" V. C. 938 L. F.

1,218 L. F.

Including 7 each manholes


Heavily wooded area

15" V. C. 356 L. F.

Including 4 each manholes

problem getting to work site

\*\*\*\*\*OUTAGES MAY BE REQUIRED\*\*\*\*\*

  
GORDON FLIRT

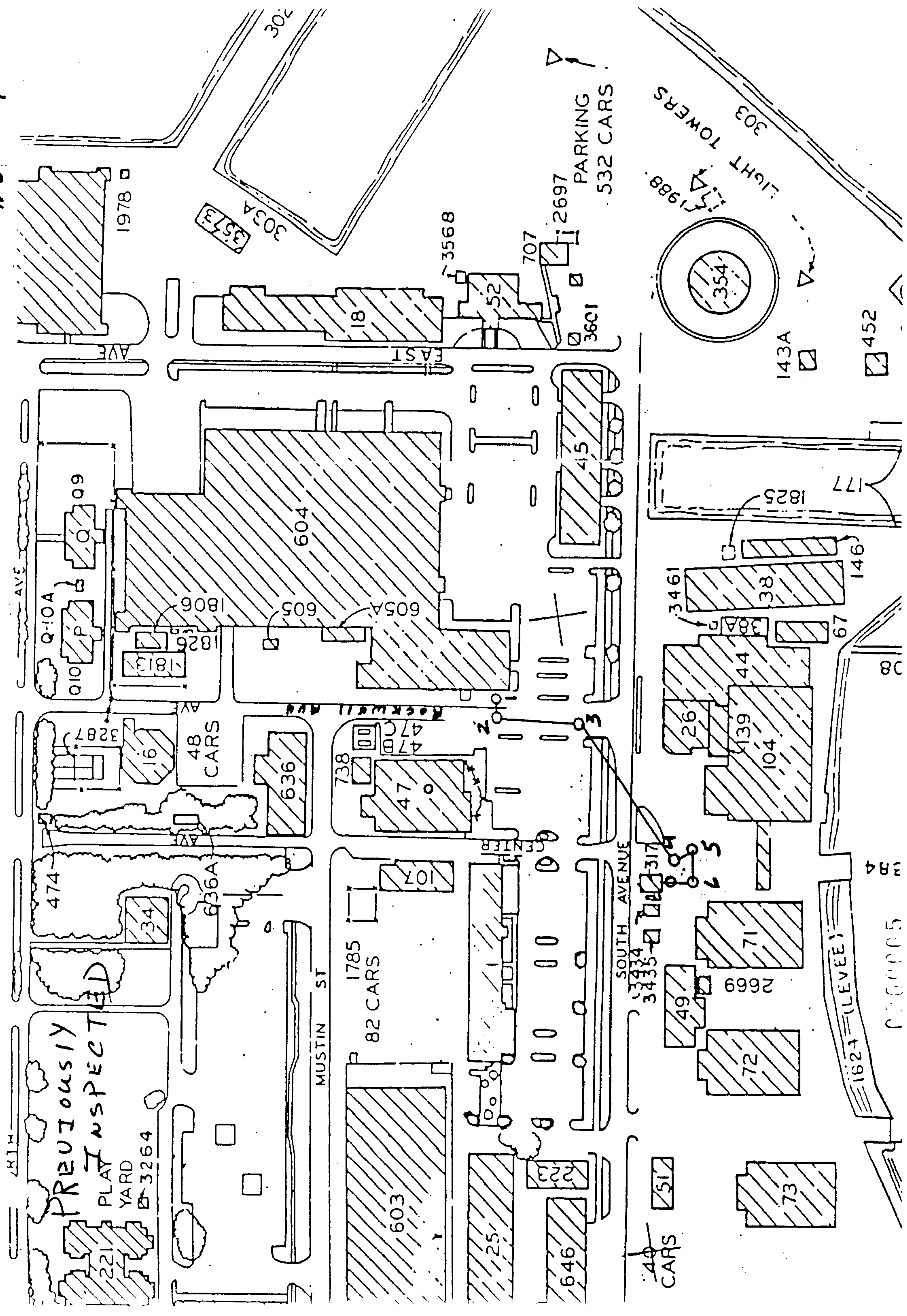
0000001



11-8-8

# INDUSTRIAL WASTE TELEVISION

N6





FLENS. & COLA, FLORIDA 32500

# INDUSTRIAL WASTE

STREET B-72

EMARKS SEE BELOW

**JOB FOREMAN**

Hub & Spoke

**JOB FOREMAN**

(v)

Good.

# DIRECTION OF FLOW

↓

Good

# WANHOLE

 $\dot{O}_2$ 

1/2

**QUADRANT**

T. V. INSPECTION

STANCE FADING	QUARTANT 1 2 3 4	PHOTO TAKEN	PHOTO NO.	DATE INSPECTED	DESCRIPTION OF DEFECT
10 FT.	✓			7/1/87	CRACKED HUB, NO INFILTRATION NOTICED
17 FT.				7/1/87	ETC M-H'S
					NOTE: LINE AND M-H'S HAD SEVERE BUILD-UP OF PAINT STRIPINGS AND SLUDGE HAD TO WASH SEVERAL TIMES. REMOVED A 55 GAL. DRUM OF STRIPING AND SLUDGE FROM M-H'S AND LINE. (SEE PHOTO) LINE IS CLEAN AND IN GOOD CONDITION, EXCEPT FOR 1 CRACKED JOINT. NO INFILTRATION NOTICED.
					000000

[illegible]



NAVAL AIR STATION  
PENSACOLA, FLORIDA 32500

NAVAL AIR STATION  
PENSACOLA, FLORIDA 32500

# INDUSTRIAL WASTE

**STREET.**

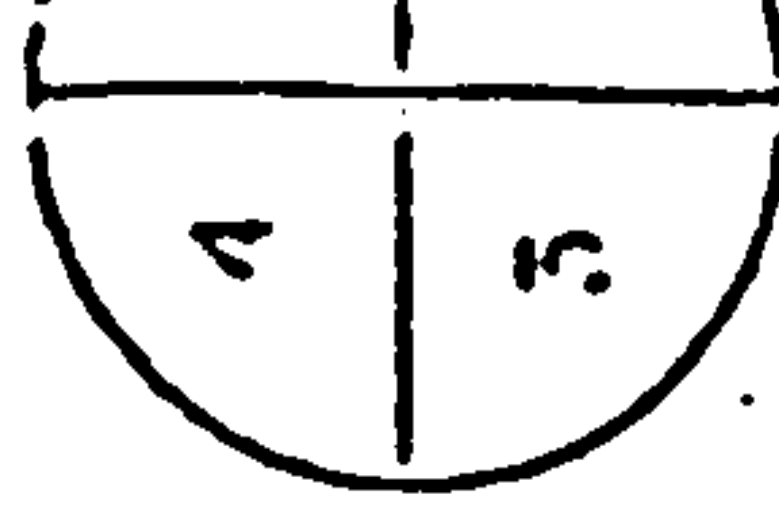
MARKS

# JOE FOREMAN

# JOE FOREMAN

3

REWORK BOTTOM



TANCE AND	CASE MANT 1 2 3 4	PHOTO TAKEN	PHOTO NO.	DATE INSPECTED	DESCRIPTION OF DEFECT
17.	✓			7/1/57	CRACKED Hub, Ground WATER INFILTRATING, DRIPPING
17.	✓				" " " "
67.	✓				" " " "
17.	✓				" " " "
67.	✓				" " " "
17.	✓				" " " "
SPZ	✓				" " " "
17.	✓				" " " "
17.	✓				M.H. NOT SHOWN ON PRINT, COVERED BY CONCRETE
17.	✓				LEAKING JOINT, DRIPPING
17.	✓				CRACKED JOINT, DRIPPING
87.	✓				CAMERA HAIR UNDER WATER, LINE SEEMS TO BE FOR
17.	✓				CAMERA STILL UNDER WATER
17.	✓			7/1/57	CITE M.H'S NOTE: HAD TO WASH SEVERAL TIMES:
					LINER HAS SEVERAL CRACKS THAT ARE LEAKING.
					FOUND CO. d M.H. LINES IS CLEAR IN C-3,
					BOTTOM NEEDS RE-WORKED

BUILDING 3561

NAVAL AIR STATION

FLINS. & COLA, FLORIDA 32500

# INDUSTRIAL WASTE

DATE 2/2/57 SET UP

AREA E-04 B-71

**STREET**

687

ANIOLE CONDITION RE-WORK BOTTOMS

INSPECTOR . . . . . FLIRT

MARKS

## PIPE SIZE

TYPE OF PIPE V.C.

TYPE OF JCINT Hub & Spoke 1091207

# JOB FOREIGN

DIRECTION OF MEASUREMENT  $\leftrightarrow$  ← FROM CENTER OF MANHOLE

# MANILA

164 FT. CTC 27.45

2-3

**DIRECTION OF FLOW**

**MANHOLE NO.**

WETA-TV

**DIRECTION OF FLOW**

**QUADRANT**

# T. V. INSPECTION

[illegible]



DATE 7/21/82 SET UP  
AREA N.E. of B-71  
STREET \_\_\_\_\_

# .TELESPECTION' REPORT

STREET\_\_\_\_\_

PIPE SIZE 12"  
TYPE OF PIPE W-C  
TYPE OF JOINT Welded Spigot  
JOB FOREMAN \_\_\_\_\_

# JOB FOREIGNER

FROM CENTER OF MANHOLE

MANHOLE NO.

MANHOLE NO.

↓ ↑

Good

T. V. INSPECTION

[illegible]

[illegible]



FLINS.COLA, FLORIDA 32500

**TELESPECTION REPORT**

# INDUSTRIAL WASTE

DATE 7/7/82 SET UP 2

AREA S-E. CORNER

STREET B-604.1

**PE CONDITION.**

22PK20,22

## ANIOLE CONDITION.

# SPECTOR

Filet

## FLAIRS

5-28-85

DIRECTION OF MEASUREMENT  $\rightarrow$   $\leftarrow$  FROM CENTER OF MANHOLE

MANHOLE NO.

D-3/Good.

**DIRECTION OF FLOW**

**MANHOLE  
NO.**

2-1

QUADRANT

GROUT Around  
Pipes

T. V. INSPECTION

[illegible]



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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NOTE: PIPE IS CLEAN AND IN GOOD CONDITION.  
NO SIGNS OF SAND OR INFILTRATION  
NOTICED. MH #2 IS IN GOOD  
CONDITION. MH #3 - GROUTED AROUND  
2 LE 3/4" PIPES IN WALL OF M.H.  
RECONNECT DISCHARGE LINE TO  
SEWAGE PUMP. (3/4" PVC)



PUBLIC WORKS CENTER

BUILDING 3561

NAVAL AIR STATION

FLINS.COLA. FLORIDA 32509

TELEPHONE REPORT

# Industrial Waste

DATE 17-8-56 SET UP =

AREA S.W. of B-604

STREET ROCKWELL AVE  
... & SOUTH AVE.

CONDITION SEE BELOW

SEE BELOW

WIOLE CONDITION SEE BELOW

SEE BELOW

Factor: G. FLIRT

G. ELIOT

ARKS SEE BELOW

SEE BELOW

MANHOLE

2

DIRECTION OF MEASUREMENT ~~↔~~ ← FROM CENTER OF MANHOLE

← FROM CENTER OF MANHOLE

MANHOLE NO. 242 FT. ETC MH'S

242 FT. CTC MH'S

## AGAINST FLOW

DIRECTION OF FLOW

DIRECTION OF FLOW

T. V. INSPECTION

WCE NO	CUMULATIVE NO	PHOTO TAKEN	PHOTO NO.	DATE INSPECTED	DESCRIPTION OF DEFECT
FT.	✓	YES	1	11-8-86	GROUN WATER INFILTRATING AT JOINT.
FT.	✓	-	-	"	BELLY STARTS, LINE 1/2 FULL OF WATER.
FT.		-	-	"	OUT OF BELLY
2FT		-	-	11-8-86	C.T.C M.H.'S
					NOTE: LINE IS IN GOOD CONDITION, EXCEPT FOR ONE JOINT LEAKING. SMALL BELLY IN LINE CAUSING NO MAJOR PROBLEM AT THIS TIME. LINE HAS SMALL AMOUNTS OF SCALE BUILD-UP.
					M-H A.H. REPLACE SEA-RINGS AND REWORK BOTTOM OF MANHOLE. POSSIBLE SAND INFILTRATING AT LEAKING JOINT.
					<b>END</b>

FLHS:COLA: FLORIDA 32305

.TELESELECTION REPORT

STREET SOUTH AVE.  
S.F. 04 B-317

QUADRANT

# STARS



NAVY PUBLIC WORKS CENTER

BUILDING 3561

NAVAL AIR STATION

PENSACOLA, FLORIDA 32500

TELESPECTION REPORT

DATE 11-8-86 SET UP

AREA 5 of B-317

INDUSTRIAL WASTE STREET SOUTH AVE.

CONDITION SEE BELOW

PIPE CONDITION Good

INSPECTOR G. FLIRT

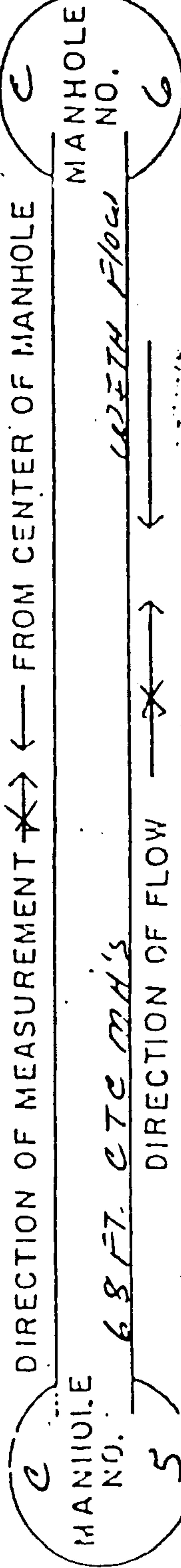
REMARKS SEE BELOW

PIPE SIZE 8"

TYPE OF PIPE V.C.

TYPE OF JOINT Hub & Spigot

DIRECTION OF MEASUREMENT ← FROM CENTER OF MANHOLE



MANHOLE NO. 5

MANHOLE NO. 6

QUADRANT

T. V. INSPECTION

DATE	QUADRANT	PHOTO TAKEN	PHOTO NO.	DATE INSPECTED	DESCRIPTION OF DEFECT
11-8-86	1	YES	1	11-8-86	LARGE AMOUNTS OF SCALE BUILD-UP
11-8-86	2	—	—	"	BELLY STARTS LINE 2/3 FULL OF WATER
11-8-86	3	—	—	"	OUT OF BELLY
11-8-86	4	—	—	"	SCALE
11-8-86	5	—	—	11-8-86	ETC M.H.'S.
11-8-86	6	—	—		
11-8-86	7	—	—		
11-8-86	8	—	—		
11-8-86	9	—	—		
11-8-86	10	—	—		
11-8-86	11	—	—		
11-8-86	12	—	—		
11-8-86	13	—	—		
11-8-86	14	—	—		
11-8-86	15	—	—		
11-8-86	16	—	—		
11-8-86	17	—	—		
11-8-86	18	—	—		
11-8-86	19	—	—		
11-8-86	20	—	—		
11-8-86	21	—	—		
11-8-86	22	—	—		
11-8-86	23	—	—		
11-8-86	24	—	—		
11-8-86	25	—	—		
11-8-86	26	—	—		
11-8-86	27	—	—		
11-8-86	28	—	—		
11-8-86	29	—	—		
11-8-86	30	—	—		
11-8-86	31	—	—		
11-8-86	32	—	—		
11-8-86	33	—	—		
11-8-86	34	—	—		
11-8-86	35	—	—		
11-8-86	36	—	—		
11-8-86	37	—	—		
11-8-86	38	—	—		
11-8-86	39	—	—		
11-8-86	40	—	—		
11-8-86	41	—	—		
11-8-86	42	—	—		
11-8-86	43	—	—		
11-8-86	44	—	—		
11-8-86	45	—	—		
11-8-86	46	—	—		
11-8-86	47	—	—		
11-8-86	48	—	—		
11-8-86	49	—	—		
11-8-86	50	—	—		
11-8-86	51	—	—		
11-8-86	52	—	—		
11-8-86	53	—	—		
11-8-86	54	—	—		
11-8-86	55	—	—		
11-8-86	56	—	—		
11-8-86	57	—	—		
11-8-86	58	—	—		
11-8-86	59	—	—		
11-8-86	60	—	—		
11-8-86	61	—	—		
11-8-86	62	—	—		
11-8-86	63	—	—		
11-8-86	64	—	—		
11-8-86	65	—	—		
11-8-86	66	—	—		
11-8-86	67	—	—		
11-8-86	68	—	—		
11-8-86	69	—	—		
11-8-86	70	—	—		
11-8-86	71	—	—		
11-8-86	72	—	—		
11-8-86	73	—	—		
11-8-86	74	—	—		
11-8-86	75	—	—		
11-8-86	76	—	—		
11-8-86	77	—	—		
11-8-86	78	—	—		
11-8-86	79	—	—		
11-8-86	80	—	—		
11-8-86	81	—	—		
11-8-86	82	—	—		
11-8-86	83	—	—		
11-8-86	84	—	—		
11-8-86	85	—	—		
11-8-86	86	—	—		
11-8-86	87	—	—		
11-8-86	88	—	—		
11-8-86	89	—	—		
11-8-86	90	—	—		
11-8-86	91	—	—		
11-8-86	92	—	—		
11-8-86	93	—	—		
11-8-86	94	—	—		
11-8-86	95	—	—		
11-8-86	96	—	—		
11-8-86	97	—	—		
11-8-86	98	—	—		
11-8-86	99	—	—		
11-8-86	100	—	—		

NOTE: NO SEEPAGE NOTICED AT JOINTS. LINE NEEDS CLEANING - SMALL BELLY IN LINE, CAUSING NO MAJOR PROBLEM AT THIS TIME.

11/8/86





PENSACOLA, FLORIDA 32500

STREET \_\_\_\_\_

# INDUSTRIAL WASTE

5E6E102

**JOB FOREIGN**

**JOB FOREIGN**

7009

WITNESS

CONDITION. HAD TO WASH  
SEVERAL TIMES. M-H'S - GOOD.  
WEST LATERAL AT M-H. A-11-A  
SHOULD BE PLACED. LINE IN  
ABANDONED.

000000



020001

FLN54COLA, FLORIDA 32500

# INDUSTRIAL WASTE

REMARKS: SEE BELOW

**JOB FOREMAN**

**JOB FOREMAN**

PAINT & STENCIL  
COVER

DESCRIPTION OF DEFECT	REMARKS
1. The surface of the concrete is not smooth and has some small pits.	1. The surface of the concrete is not smooth and has some small pits.
2. The concrete is not fully cured and has a yellowish tint.	2. The concrete is not fully cured and has a yellowish tint.
3. The concrete is not fully compacted and has some voids.	3. The concrete is not fully compacted and has some voids.
4. The concrete is not fully finished and has some rough edges.	4. The concrete is not fully finished and has some rough edges.
5. The concrete is not fully protected and has some staining.	5. The concrete is not fully protected and has some staining.

M-H-A-10-1 NEW CONST. FINISHING

RECEIVED

**00002**





0000023



NAVY PUBLIC WORKS CENTER

BUILDING 3561

NAVAL AIR STATION

FLINS. & COLA, FLORIDA 32300

# TELESELECTION REPORT

DATE 7/11/81 SET UP 5

AREA N.E. CORNER

STREET OF B-35188

THE CONDITION Black power

WHOLE CONDITION Good

SPECTRUM \_\_\_\_\_ Flip7

MARKS.....  
SEE BELOW

## PIPE SIZE

# TYPE OF PIPE

## TYPE OF JOINT

# JOB FOREMAN

151

4-2

10925-9-4  
H-6 of 522607

DIRECTION OF MEASUREMENT  $\rightarrow$   $\leftarrow$  FROM CENTER OF MANHOLE

MANHOLE  
NO.

A-10-13

1005

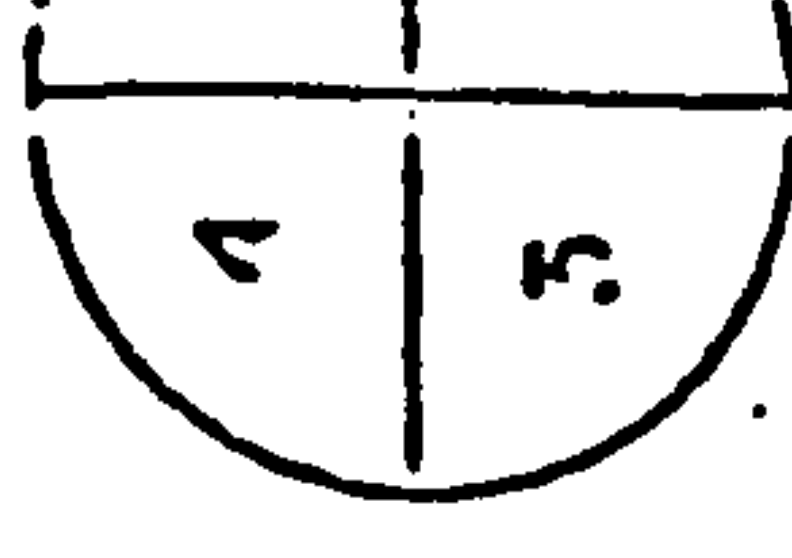
**DIRECTION OF FLOW**

MANHOLE NO.

19-10-C

Good.

## QUADRANT



## T. V. INSPECTION

[illegible]

PENS. & COLA, FLORIDA 32500

# INDUSTRIAL WASTE

STREET \_\_\_\_\_

REMARKS  
SEE BELOW

**JOB FOREMAN**

T. V. INSPECTION

[illegible]

0000025



NAV PUBLIC WORKS CENTER

BUILDING 3561

NAVAL AIR STATION

PENSACOLA, FLORIDA 32500

TELESPECTION REPORT

DATE 7/12/82 SET UP

AREA N.W. Corner

STREET of B-3588

INDUSTRIAL WASTE

PIPE CONDITION Good (SEE BELOW)  
PIPE SIZE 15"  
PIPE CONDITION Good  
TYPE OF PIPE V.E.  
INSPECTOR FLET  
TYPE OF JOINT NUB & SPIGOT  
REMARKS SEE BELOW  
JOB FOREMAN

MANHOLE NO. A-10-D/Good  
DIRECTION OF MEASUREMENT ← FROM CENTER OF MANHOLE  
MANHOLE NO. A-10-E  
DIRECTION OF FLOW ← WITH FLOW  
QUADRANT

T. V. INSPECTION

STANCE (ARMS)	QUADRANT	PHOTO TAKEN	PHOTO NO.	DATE INSPECTED	DESCRIPTION OF DEFECT
507	1	YES	1	7/12/82	SLUDGE AND PAINT STRIPINGS
537				7/12/82	CTC M.H.'s
					NOTE: ONLY SAW HALF OF PIPE (TOP HALF) LINE HALF OF PAINT STRIPINGS AND SLUDGE. WASHED SEVERAL TIMES TO REMOVE Debris. LINE SEEMS TO BE IN Good condition.
					RE CLEAN
					0000026



PENS. & COLA. FLORIDA 32500

# INDUSTRIAL WASTE

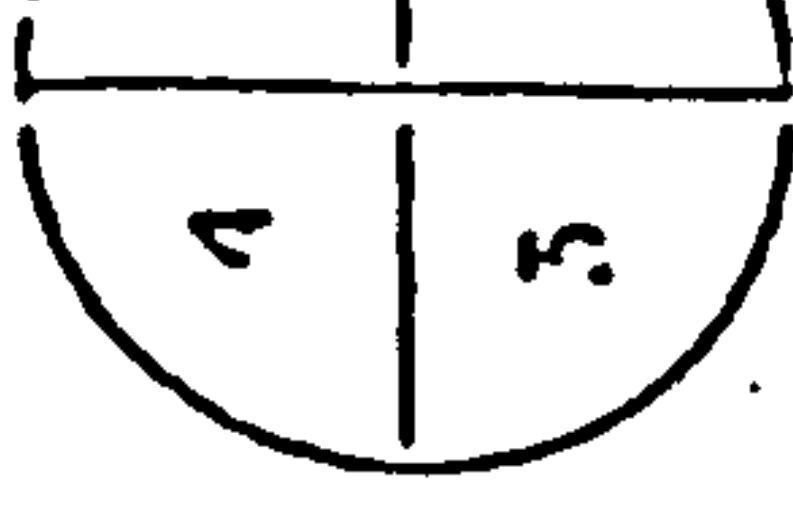
STREET S. of B-3460

MARKS SEE BELOW

**JOB FOREMAN**

**JOB FOREMAN**

STORM DRAIN  
COVER

[illegible]

QLECEAX

220000

NAVAL AIR STATION  
PENSACOLA, FLORIDA 32508

# INDUSTRIAL WASTE

AREA 42 of B-3588

# STREET

MANHOLE NO. A-8 SEP 1

DIRECTION OF MEASUREMENT → ~~X~~ FROM CENTER OF MANHOLE

MANHOLE NO. 117F7 CTE m-H's

DIRECTION OF FLOW ← ~~X~~ →

MANHOLE NO. A-10B Good.

QUADRANT

1 / 3

T. V. INSPECTION

[illegible]



BUILDING 3561

# NAVAL AIR STATION

PENSACOLA, FLORIDA 32500

## TELESECTION REPORT

## INDUSTRIAL WASTE

DATE 7/22/82 SET UP

AREA  $\Delta' C' B'$

STREET 3557 . 1

PE CONDITION UNKNOWN  
 ANIOLE CONDITION SEE BELOW  
 INSPECTOR FLIRT.  
 REMARKS SEE BELOW

PIPE SIZE 10"  
TYPE OF PIPE PVC  
TYPE OF JOINT Hub & Spigot  
JOB FOREMAN \_\_\_\_\_

**JOB FOREMAN**

DIRECTION OF MEASUREMENT  ← FROM CENTER OF MANHOLE

MANHOLE NO.

ANHOLE  
NO.  
A-1-B Good

**QUADRANT**

T. V. INSPECTION

[illegible]

**820000**

BUILDING 3561

NAVAL AIR STATION

PENS. & COLA, FLORIDA 32500

TELEVISION REPORT

# INDUSTRIAL WASTE

DATE 7/22/87 SET UP.

AREA N. of B-3557.


STREET \_\_\_\_\_

PIPE CONDITION Good  
 MANHOLE CONDITION SEE BELOW  
 INSPECTOR FLIRT  
 REMARKS SEE BELOW

PIPE SIZE 10"  
TYPE OF PIPE PVC  
TYPE OF JOINT Hub & Spigot  
JOB FOREMAN \_\_\_\_\_

MANHOLE NO. <u>304A</u> <u>ETC</u> <u>MA</u>		DIRECTION OF MEASUREMENT <u>X</u> <u>←</u> FROM CENTER OF MANHOLE	
MANHOLE NO. <u>A-1-A</u> <u>7/5</u>		MANHOLE NO. <u>A-1-B</u>	
DIRECTION OF FLOW <u>→</u>		<u>←</u> <u>X</u> <u>→</u>	

QUADRANT



T. V. INSPECTION

[illegible]

000000



STREET \_\_\_\_\_

MANHOLE NO. A-1-A RE-Grout

DIRECTION OF MEASUREMENT  $\leftarrow$   $\rightarrow$  FROM CENTER OF MANHOLE

MANHOLE NO. 352 FT. CTE M-H'S

DIRECTION OF FLOW  $\leftarrow$   $\rightarrow$

QUADRANT

MANHOLE NO. A-1

NEW FIBER GLASS WALL CRACKED

1

3

[illegible]

NAVAL AIR STATION  
PENSACOLA, FLORIDA 32508

# INDUSTRIAL WASTE

STREET \_\_\_\_\_

PIPE SIZE 15"  
TYPE OF PIPE V.C.  
TYPE OF JOINT Weld & SPTGOT  
JOB FOREMAN \_\_\_\_\_

QUADRANT

A-67/5

[illegible]

三





BUILDING 3561

NAVAL AIR STATION  
PENSACOLA, FLORIDA 32500

# TELESECTION REPORT

# INDUSTRIAL WASTE

DATE 7/22/83 SET UP 2

AREA CAL. OF B-3460

**STREET.**

PE CONDITION UNKNOWN  
 ANIOL CONDITION SEE BELOW  
 SPECTOR FLIRT  
 MARKS SEE BELOW

PIPE SIZE 15"  
TYPE OF PIPE V-C  
TYPE OF JOINT Weld  
JOB FOREMAN \_\_\_\_\_

DIRECTION OF MEASUREMENT  $\rightarrow$   $\leftarrow$  FROM CENTER OF MANHOLE

MANHOLE  
NO.

A-5/God

DIRECTION OF FLOW

MANHOLE NO.

A-4 Rü-Grint

QUADRANT

T. V. INSPECTION

[illegible]

0000034



BUILDING 3561

# NAVAL AIR STATION

FLINSICO, FLORIDA 32300

# TELESELECTION REPORT

# INDUSTRIAL WASTE

DATE 7/23/77 SET UP

AREA S. of B-3432

STREETS

MANHOLE NO. A-4

DIRECTION OF MEASUREMENT →

DIRECTION OF FLOW →

QUADRANT

1 2 3 4

MANHOLE  
NO.

# DIRECTION OF FLOW

MANHOLE  
NO. \_\_\_\_\_

A-3

QUADRANT

T. V. INSPECTION

[illegible]
$$R \dot{F} = C / E_{\text{max}}$$

# STUDIO

NAVY JEBLIC WORKS CENTER  
BUILDING 3561

NAVAL AIR STATION  
PENSACOLA, FLORIDA 32500

# .TELESECTION' REPORT

# INDUSTRIAL WASTE

DATE 7/23/72 SET UP: 2

AREA 5, of B-3437

STREET \_\_\_\_\_

PIPE SIZE	18"
TYPE OF PIPE	V.C.
TYPE OF JOINT	Welded Socket
JOB FOREMAN	

PIPE CONDITION	UNKNOWN
PIPE CONDITION	SEE BELOW
INSPECTOR	FLIRT
REMARKS	SEE BELOW

MARKS..... See below


MANHOLE NO. A-3

DIRECTION OF MEASUREMENT  $\longrightarrow$

MANHOLE NO. A-2

DIRECTION OF FLOW  $\longrightarrow$

QUADRANT



**T. V. INSPECTION**

[illegible]



FLINS:COLA, FLORIDA 32500

TELESECTION REPORT

# INDUSTRIAL WASTE

DATE 7/23/57 SET UP 2

AREA S. of B-2432

**STREET.**

## THE CONDITION

UNKNOWN

# NOISE CONDITION

see 86100

# REFLECTOR

FILET

# MARKS

5E-486E/002

## PIPE SIZE

15"

TYPE OF PIPE

4.5.

# TYPE OF JOINT

Sub SPZGOT

**JOB FOREMAN**

DIRECTION OF MEASUREMENT.  $\rightarrow$   $\leftarrow$  FROM CENTER OF MANHOLE

MANIOLÉ  
N° 1

DIRECTION OF FLOW

MANHOLE  
NO.

A-1

**QUADRANT**

T. V. INSPECTION

[illegible]

NAVY PUBLIC WORKS CENTER

BUILDING 3561

NAVAL AIR STATION

PENSACOLA, FLORIDA 32500

TELESPECTION REPORT

INDUSTRIAL WASTE

DATE 2/23/82 SET UP 1

AREA B-3437

STREET

PIPE CONDITION

W/A

PIPE CONDITION

W/A

INSPECTOR

PIET

MARKS

SEE BELOW

PIPE SIZE

TYPE OF PIPE

WET WELL

TYPE OF JOINT

JOB FOREMAN

DIRECTION OF MEASUREMENT → ← FROM CENTER OF MANHOLE

MANHOLE NO.

WET WELL

DIRECTION OF FLOW → ←

MANHOLE NO.

QUADRANT

T. V. INSPECTION

SPACE NO.	QUADRANT 1 2 3 4	PHOTO TAKEN	PHOTO NO.	DATE INSPECTED	DESCRIPTION OF DEFECT
					NOTE: PUMPED DOWN WET WELL.
					WASHED WITH JET SPRAY.
					CHECKED WALL FOR SPALLING
					CONCRETE WALLS LOOKED GOOD
					WALL AT WASTE LEVEL
					SMALL AMOUNTS OF SPALLING
					OCCURRING NO MAJOR PROBLEM
					AT THIS TIME.
					Bldg-3437 IS Numbered 3434 ON
					PRINT. PUMPING STATION NO. 2
					COULD NOT GET WASHLINE OR T.V. VAN TO
					M-H'S AND LINES BETWEEN M-H'S: A-1 TO B-1
					B-1-A TO B-2. LINES NEED TO
					BE CLEANED AND TESTED.



FLUOROCOLA, FLORIDA 32500

# INDUSTRIAL WASTE

# STREET

5/15/03

**JOB FOREMAN**

18-7-E

[illegible]

NAVY PUBLIC WORKS CENTER

BUILDING 3561

NAVAL AIR STATION  
PENSACOLA, FLORIDA 32500

TELESPECTION REPORT

INDUSTRIAL WASTE

DATE 7/29/52 SET UP

AREA S. of B-692

STREET

E CONDITION UNKNOWN  
PIPE SIZE 10"  
PIPE CONDITION SEE BELOW  
TYPE OF PIPE W.C.  
SPECTOR FLET.  
TYPE OF JOINT HUB & SPIGOT  
MARKS SEE BELOW  
JOB FOREMAN

DIRECTION OF MEASUREMENT ← FROM CENTER OF MANHOLE  
MANHOLE NO. B-7-E 57 FT ETC M-H'S  
DIRECTION OF FLOW →  
MANHOLE NO. B-7-D  
QUADRANT OPEN COVER P/S-REF WORK BOTTOM

T. V. INSPECTION

QUADRANT	PHOTO TAKEN	PHOTO NO.	DATE INSPECTED	DESCRIPTION OF DEFECT
1			7/29/52	ETC M-H'S.
2				NOTE. TULLED LINE, CAMERA UNDER
3				WATER M-H-B-7-D HAS BAD
4				BOTTOM HOLDING WATER
				CAUSING WATER TO BACK-UP
				INTO M-H-B-7-E, RE-WORK
				BOTTOM of M-H-B-7-D.
				M-H-B-7-D HAS GRATED COVER
				LETTING SAND TO ENTER
				SYSTEM. LARGE AMOUNTS
				OF SAND WAS REMOVED FROM
				M-H AND LINE GOING TO
				M-H-B-7-E.

000000



STREET . 1

PIPE SIZE 12"  
TYPE OF PIPE W.C.  
TYPE OF JOINT Hub & Spigot  
JOB FOREMAN \_\_\_\_\_

MANHOLE NO. \_\_\_\_\_

QUADRANT \_\_\_\_\_

MANHOLE NO.

WE 74 F100

B-7-C Inside Bldg -  
P/S

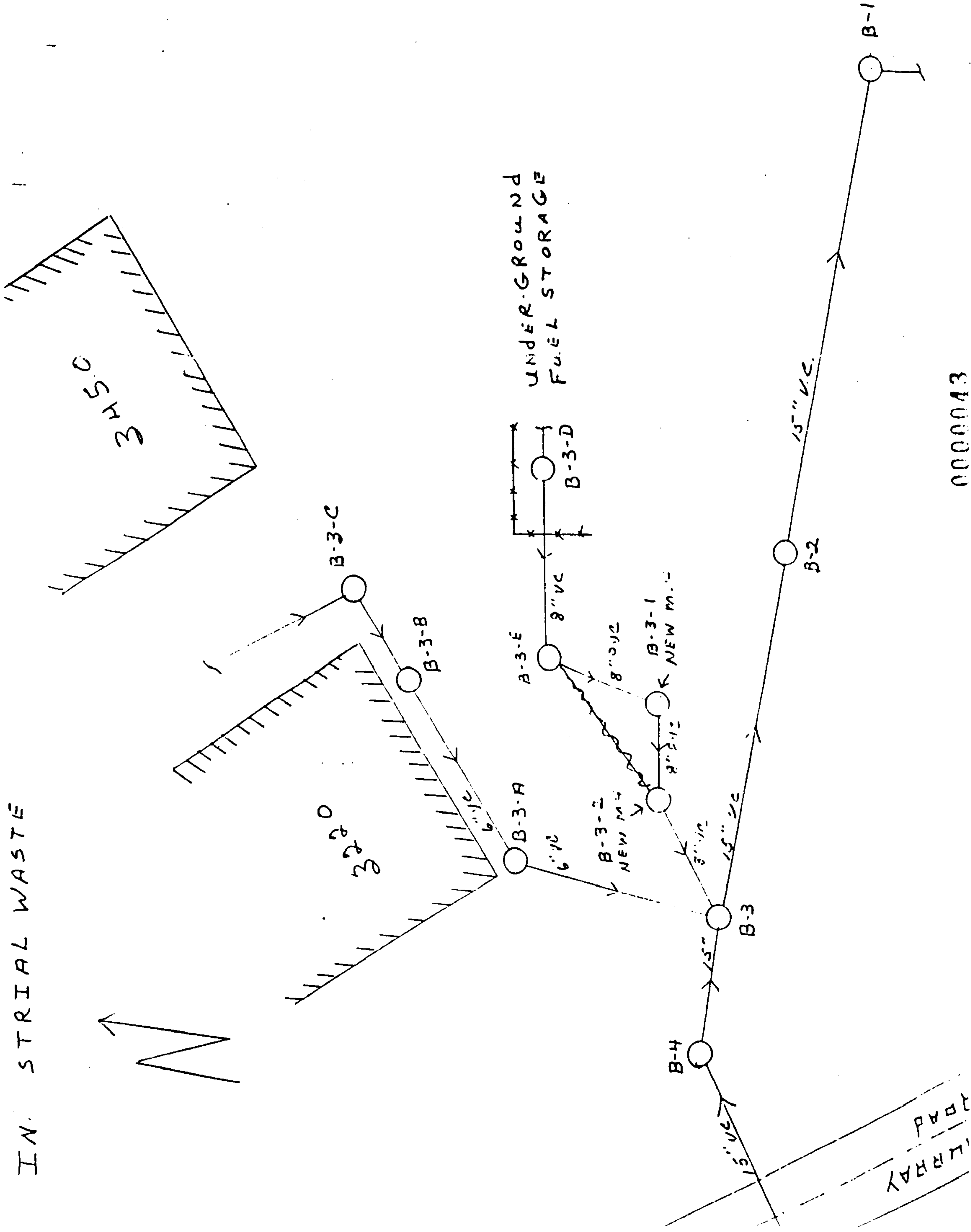
[illegible]

000041

0000042



INDUSTRIAL WASTE



BUILDING 3561

NAVAL AIR STATION

FLMNS. & COLA, FLORIDA 32500

**.TELESPECTION' REPORT**

# INDUSTRIAL WASTE

DATE 7/23/57 SET UP-

AREA S. of B-3220

**STREET.**

**E CONDITION.**

1009

# WIOLE CONDITION

Good.

RECTOR

First

# MARKS

see below

## PIPE SIZE

 $\infty$ 

TYPE OF PIPE

PUC

TYPE OF JOINTS

107 IDS 497

**JOB FOREMAN**

DIRECTION OF MEASUREMENT ~~↔~~ ← FROM CENTER OF MANHOLE

②

# MANIOL.E

NO. 1037. C7C M.H's

DIRECTION OF FLOW

3-3-1

B-3-1/2/c

T. V. INSPECTION

[illegible]

0000041



NAVAL AIR STATION  
PENSACOLA, FLORIDA 32508

TELESECTION REPORT

STREET LAMP FIXTURES  
SIX 13.15

PIPE CONDITION	GOOD	PIPE SIZE	8"
PIPE ANNULE CONDITION	SEE BELOW	TYPE OF PIPE	V-C
INSPECTOR	FIRT	TYPE OF JOINT	Hub & Spigot
REMARKS	SEE BELOW	JOB FOREMAN	

10

WIZN FLOW

DIRECTION OF FLOW

13-37-719

QUADRANT

T. V. INSPECTION

STAGE LANDING	QUANTITY 1 2 3 4	PHOTO TAKEN	PHOTO NO.	DATE INSPECTED	DESCRIPTION OF DEFECT
18 ft.	✓			7/23/87	Small Fiber Roots, No Infiltration
23 ft.	✓				" " " "
38 ft.	✓				" " " "
64 ft.	✓				" " " "
80 ft.	✓			7/23/87	etc m.h's
					NOTE: LINE IS CLEAN AND IN GOOD CONDITION LINE HAS 4 JOINTS THAT HAVE VERY SMALL FIBER ROOTS. NO INFILTRATION OF GROUND WATER. M.H.'S GOOD, NEED TO BE PAINTED AND STENCILED. ROOTS ARE CAUSING NO PROBLEM AT THIS TIME

FLUENT COLA, FLORIDA 32500

**UCCAS**



NAV- PUBLIC WORKS CENTER

BUILDING 3561

NAVAL AIR STATION

FLINS-COLA, FLORIDA 32500

# TELEVISION REPORT

## INDUSTRIAL WASTE

THE CONDITION.

Unknown

# WHOLE CONDITION

click now

# SPECTOR

FLIRT

# MARKS

SEE BELOW

DIRECTION OF MEASUREMENT  $\rightarrow$   $\leftarrow$  FROM CENTER OF MANHOLE

MANHOLE  
NO.

MANHOLE  
NO.

**DIRECTION OF FLOW**

T. V. INSPECTION

[illegible]

**Appendix B**

**USEPA Preliminary Assessment Report for Building 604**



PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT  
BUILDING 604 — CONSOLIDATED PLATING FACILITY ADDITION  
02 FEBRUARY 1995

- REFERENCES:
- (1) Potentially Historic Buildings Directory dtd 24 May 91
  - (2) Investigation of Industrial Wastewater, Sanitary Sewerage, Stormwater, Potable Water and Steam Condensate Systems report dtd July 1993 prepared by Johnson, Creekmore, Fabre Consulting Engineers
  - (3) Contamination Assessment/Remedial Activities Investigation Industrial Waste Sewer (Site 36) April 1992.
  - (4) Industrial Waste Sampling in Support of Construction April 1993
  - (5) UST Contamination Report and analytical results dtd 30 Sep 1992
  - (6) RCRA HSWA PERMIT FL9 170 024 567 effective 26 Aug 88

- FIGURES:
- (1) Bldg 604 Location
  - (2) Bldg 604 Plating Shop Process Areas (1st Floor)
  - (3) Bldg 604 Plating Shop Storage Areas (2nd Floor)

1. PURPOSE: To evaluate potential environmental liabilities related to closure of the Plating Shop, perform preliminary environmental assessment to determine if a potential for a contaminant release has or may occur, and to generate recommendations for environmental actions during closure including recommendations for a transition to the currently ongoing Environmental Installation Restoration Program.

2. FACILITY DESCRIPTION: Building 604 is two-story, irregular, brick/masonry structure built in 1937 as a hanger located on the west side of East Avenue in the old Navy Yard of NAS Pensacola (Fig 1). According to Ref (1), the building is not listed in the National Register of Historic Places; however, was identified being eligible for potential listing. The consolidated plating facility itself is located in a new addition added to the west exposure of building 604 in 1969. The plating facility is still in production and is planned for closure and decommissioning in the September 1996. The closure date may extended up to 1 – 2 years based if plating requirements of the Dynamic Components shop continuing operation cannot be met at building 649. The likely operation would not include all plating lines currently in operation and limited operational/maintenance personnel would be assigned.

3. ENVIRONMENTAL ASSESSMENT: The following is a preliminary environmental assessment to assist NAS Pensacola in scoping actions required for operational closure as well as initial screening recommendation for the current Installation Restoration Program under CERCLA and RCRA HSWA.

a. Field Survey Results:

- 1) Steam Condensate and Sanitary Sewer Drainage System: A survey of the facility revealed that the condensate system drains to a condensate





Bldg 604 - PLATING SHOP  
FIGURE C1  
Loc. on Map



collection system and tank where reclaimed liquid is reused as process water or discharged to evaporators used to condense waste streams prior to disposal as hazardous waste. The sanitary sewer only drains restroom facilities and no evidence was found of connection to any industrial or process equipment as determined by visual inspection confirming citings in Ref (2).

2) Process Assessment: Figures 2 & 3 outline the plating process area and indicates plating lines. Listed in the table below are the chemicals and constituents that are typically handled, utilized and could potentially be released at or from this facility. Attachment (2) also provides a current list of hazardous materials known to have been utilized in the plating processes. An evaluation of historical IRP environmental data, interviews with current workers, review of PWC records, and results of a field survey indicates the following areas of potential contamination and potentially related contaminants of concern. The assessment concentrated on areas where likely worst releases of common contaminants investigated at a typical CERCLA response, and may likely expand if a CERCLA/RCRA HSWA response and/or investigation is required.

Table 1: List of compounds and substances observed in Plating Process Area		
Plating Production Line Description	List Observed Hazardous Compounds and Substances	Areas of Potential Releases
Silver Plating Line — Extreme north side, running west to east, 1st floor and basement	Sodium Cyanide, Silver Cyanide, Potassium Cyanide, Sodium Hypochlorite, and Sodium Hydroxide.	Cyanide process and drag tanks (2) and silver recovery equipment overflows and spills in north weired basement area. Historically drained to the cyanide waste collection sump located in basement prior to installing waste collection and condensing equipment.
Cadmium Plating — Two production lines south of silver line running west to east, 1st floor and basement	Ammonium Nitrate, Hydrochloric Acid (historical use), Sodium Cyanide, Chromium Trioxide, Sodium Hydroxide, and Cadmium Oxide.	Cyanide process and drag tanks (2) and cadmium recovery equipment overflows and spills in north weired basement area. Historically drained to the cyanide waste collection sump located in basement prior to installing waste collection and condensing equipment.
Lead/Tin and Zinc plating (old silver plating line) — Four production lines, south of cadmium line running west to east (west wall to building mid-point), most tanks are inactive.	PD 680 Solvent; PC436E Alkali Cleaner; Hydrochloric Acid, Sulfuric Acid, Sodium Stearate, Sodium Hydroxide, Nickel pellet anodes, and Zinc 980 (zinc dip)	Spills and overflows into nickel plating weired area in basement. Historical use includes cyanide plating for silver & copper.

Bldg 604 - Front (2)  
Main Process Area.

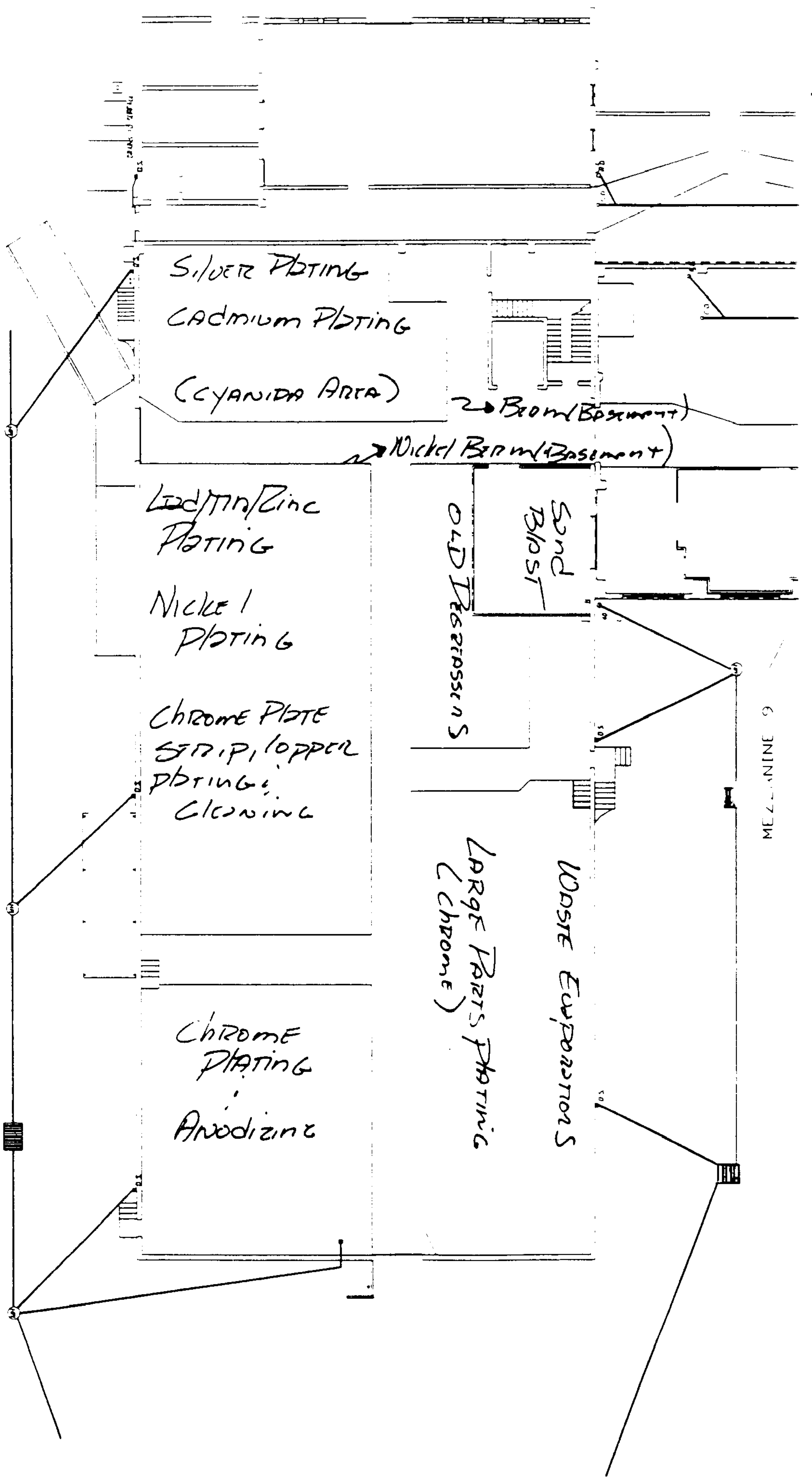






Table 1: List of compounds and substances observed in Plating Process Area		
Plating Production Line Description	List Observed Hazardous Compounds and Substances	Areas of Potential Releases
Nickel Plating Area — Six production lines south of Lead/Tin line, west wall	Sodium Hydroxide, Zinc, Nickel Sulfamate, Boric Acid, Nickel Chloride, Ammonia stripping solution, Sodium Dichromate, Nitric Acid, Phosphoric Acid, and High Alkali Etching Solution	Spills and overflows into nickel plating weired area in basement. Historical use includes cyanide cleaning line.
Chromium Plate Strip, Copper Plating, aluminum etching lines — six lines south of nickel plating line, north of chromium plating on west wall	Nitric Acid, Potassium Permanganese, Phosphoric acid, Black Magic (proprietary solution), Hydrochloric acid, Chromium trioxide, Sulfuric Acid, PC436E Cleaner, PD 680 Solvent, Zinc Oxide, Sodium Hydroxide, Sodium Cyanide, Copper sulfate, Sulfuric acid, Potassium Permangnate, Sodium Hydroxide, Chromic Acid, and Copper Cyanide	Spills and overflows into nickel plating weired containment area in basement.
Chromium Plating and Aluminum Anodizing lines — six lines, south of Copper Plating, running south to north from south wall, west side.	Chromium Trioxide, sulfuric Acid, Sodium Hydroxide, Chromic Acid, Aluminum coloring dyes, Oxalic Acid, Acetic Acid, and Nickel Acetate	Spills and overflows into south basement areas and to floor drainage system. No containment structures were observed.
Cleaning Line — East Wall, south of cadmium line and east entrance from c/d 604	Trichloroethene (historical — 2 tanks removed 2–3 years ago), PC346E cleaner	Spills from old TCE tanks drained to basement and likely to cyanide or acid collection sumps.
Oversized parts anodizing and chromium plating, Alodine dip, process waste water storage and evaporators — south of cleaning on east wall, running north to south to south wall (south east quadrant of facility)	Alodine, Manganese phosphate, Nitric Acid, PC436E Cleaning, Chromic Acid, Chromic Trioxide, Sodium Dichromate, Sodium Hydroxide, Turco Accelaglo, Chromic Acid, Sodium Fluosilicate, and Potassium Ferricyanide. NOTE: Waste water evaporator tanks collect all waste water (including basement fluids) and evaporates water to collect solids and sludges for hazardous waste disposal for all areas except north cyanide lines.	Spills and overflows into south basement areas and to floor drainage system. No containment structures were observed.
Penthouse: 2nd Floor — hazardous material storage, air scrubbers, scrubber cleaner, ventilation and process support equipment.	Three segregated areas store areas all compounds and substances outlined in Plating processes above. Cleaner located on southeast wall is used to wash scrubber filters of substances trapped from the plating processes.	Visual indication confirmed interview discussions that the scrubber filter washer typically overflows. Discharge appears to flow through the exterior wall and flows down the southeast exterior wall to grass area and nearby storm sewer drain. Also per Ref (2), floor drains under oxidizer, caustic, and poisons storage area discharge to the storm sewer system. Lastly appears that numerous intakes to various scrubbers (most noticeably nickel area) are leaking a dark liquid, most likely from vapor condensation, and discharging to near floor drains.



3) Facility Assessment:

(A) Basement Evaluation: The basement is an open room underneath the plating process area providing access to tanks as well as support utilities such as steam, water, ventilation, and wastewater collection for plating tanks. Structurally, it is constructed of one (1) foot concrete walls on a two to three foot slab foundation. However, per construction drawings, the four sumps (and drains) for drain and waste collection consist of a thinner (1) foot concrete floor. Standard housekeeping procedures are to sweep floors and dispose of as a hazardous waste as well as washing various areas, washing down into one of the sumps where it is pumped to waste processing tank for volume reduction in the evaporators. Of significant note were statements made by various personnel that every process and waste tank, sump, and/or process weir has overflowed and on occasion has flooded the basement area. Listed below are pertinent observations of various functional units in the basement:

(1) Containment Process Areas: Two process areas have a containment weirs (constructed in last 8 years) to isolate spills and overflows to a limited are — (1) silver and cadmium plating and (2) nickel plating areas. Per discussions with shop supervisor, the silver and cadmium containment discharge is pump as needed to a cyanide waste tank for processing in the cyanide waste evaporator (drains in containment area are plugged). The second is in the Nickel processing area. Observations noted that the concrete weir and epoxy seal in this area is deteriorated. The concrete floor in this area is spalled and indicates a highly corrosive environment. The nickel area is bordered on one end by a deep sump which likely receives waste products accumulated in this process area. Both containment areas have been flooded over the containment structures on more then one occasion.

(2) Sumps: Four sumps are located in the basement and were used for waste collection. (Note: Historically, sumps were pumped to industrial waste system when system was active. Presently, the industrial waste collection system is not in service and is capped at the facility.)

(a) Sump A: Located in the southeast quadrant just south of the current cleaning area. The approximately 4' deep sump historically collected acid spills and industrial waste from chrome plating area. Acid and

chrome contaminated water were then pumped to a waste acid tank for batch treatment in a reactor located on the second floor. Currently, this sump is being used to collect drainage from second floor drains as there is evidence that floor drains located in area of old acid and chrome treatment reactor on the second floor drain to this sump.

(b) Sump B: Located in northeast quadrant under current office area. The approximate 4' deep sump that historically collected silver and cadmium plating cyanide spills on one side and cyanide area industrial wastes (typically acids) in the other. Cyanide contaminated water from process tanks were collected in this sump, treated with strong sodium hydroxide solution and pumped to waste alkali tank for later batch treatment reactor located on the second floor. The only information found for the industrial waste sump was pumping to an unknown industrial waste treatment area. Currently, only one chamber of this sump is being used with discharge (2nd floor drains) going to the basement waste accumulation tank. Additionally, there is evidence that floor drains located in area of old alkali and current cyanide destruct reactors (collects spills and tank overflow) on the second floor drain to this sump.

(c) Sumps C & D: Trenches outline the chrome and nickel plating areas which historically collected process tank wastes. The trenches collected waste water in two large sumps which pump waste water to the Industrial Waste System. Currently, only condensate water is collected in the sumps which is tested prior to discharge.

(3) Misc: Various waste collections tank are currently and have historically been located in the basement for temporary storage until pumped to respective treatment process.

(4) Floor Drains: It is believed but cannot be confirmed that basement floor drains discharge at one of the sumps and may need further investigation to conclusively determine where waste water is being discharged to.



(B) First Floor Process Area Evaluation: Main plating process area See table (1). All tanks are ventilated with duct work carrying fugitive fumes to the scrubbers located on the 2nd floor. Evaporators used to condense or reduce waste streams are located at (1), one tank used for cyanide waste stream at silver plating line (North East corner) and (2) series of 3 to 4 tanks at oversized parts plating line (Along South East Wall).

(C) Second Floor Evaluation: Location of Waste Treatment Containment areas (current cyanide destruct system: Note that floor drains discharge to basement sumps A & B), Scrubber Filter Washer, Air Scrubbers (observed leaks caused from condensation of vapors at scrubber and associated ventilation ducting), Hazardous Materials Storage Areas (Note: indications that floor drains from northwest corrosive storage discharges to storm sewer system), plating shop lab (sink and drains go to sanitary sewer, observed large quantity of lab packs and chemicals). Historically there are indications that batch reactors for treatment of acid and chrome wastes were located here. Per original drawings there are indications that treated waste was discharged to the storm sewer (later industrial waste sewer when constructed).

(D) Built-up Roof: Fumes discharged from plating process ventilation have likely contaminated roof material with chromium, cadmium, and nickel constituents over the 20+ years of operation.

(E) Exterior and Surrounding Area Evaluation

- Southeast Exterior Wall (Observed evidence of 2nd floor scrubber filter washer leakage running down building exterior to grass area and possible storm water collection pit)
- Northwest Exterior Wall (Heavy staining observed at main ventilation intake)
- Downspouts (may be transporting roof contaminants to storm water collection system)
- Fumes discharged from plating process ventilation may have impacted nearby surface soils with chromium, cadmium, and nickel constituents over the 20+ years of operation.

b. Installation Restoration Data review: A review of three investigations, Ref (3),(4) and (5) as part of the ongoing CERCLA investigation revealed the facility may be the source of a release as indicated by soil borings taken near building 604 & 26. This summary is a screening tool to assist in determining if a release has occurred or is likely to occur in the generation of recommendations of additional investigatory efforts:

1) Hydrogeologic Assessment: Shallow subsurface lithology can be generally characterized as unconsolidated; well sorted; brown, tan, grey, and white, medium course grained quartz sands overlaying unconsolidated; moderately sorted medium to fine grained sands. The surficial ground water zone is a sand-and-gravel aquifer. Water levels were typically 10 feet below land surface. Ground water flow appears to be to the Southeast and discharges into Pensacola Bay. The hydraulic gradient was recorded near the bay at 0.002 – 0.006 ft/ft.

2) Soil Sampling Summary: Soil Samples collected from two (Ref (3)) and six (Ref (4)) borings at surface to 2 foot and 4 to 10 foot intervals , indicated the following contamination was detected South and East (down gradient) of the Plating Shop:

Manganese	20 – 900 mg/l
Lead	60 – 680 mg/
PCE	ND – 120 mg/l

3) Groundwater Sampling Summary: Groundwater samples collected from four temporary wells (Ref (3)) and four permanent wells (Ref (4)), indicated the following contamination was detected South and East of the Plating Shop:

Cadmium	10 – 350 µg/l
Chromium	12 – 740 µg/l
Lead	23 – 2200 µg/l
Cyanide	11 – 44 µg/l
PCE	6 – 500 µg/l
TCE	4 – 21 µg/l
DCE	10 – 70 µg/l
Vinyl Chloride	6 – 38 µg/l

NOTE: The concentrations detected in the temporary wells may not be indicative of dissolved lead, cadmium, chromium concentrations due to high turbidity. However, permanent well results were statistically similar and in many cases higher than temporary well detections. Also an additional permanent well installed south west



of the plating shop showed significantly lower concentrations of contaminants (all organics were non-detect and many inorganics except Lead and Chromium were within their respective MCL).

- 4) UST Investigation Results: A UST was removed from the south exposure in the exterior corner where the plating facility meets the original 604 building. Attachment (3) presents concentration maps and analytical results from 10 monitoring wells sampled on the south end of 604 (Feb 1992). Results indicate high levels of the following contaminants:

Cadmium	ND - 210 µg/l
PCE	ND - 9100 µg/l
Vinyl Chloride	ND - 1,700 µg/l
Methylene Chloride	ND - 310 µg/l
TCE	ND - 250 µg/l

NOTE: Solvent and metal contamination did not correlate with the identified petroleum plume, which indicates another contributing source. For PCE and cadmium the concentrations detected increase upgradient from the UST's location toward the Plating Facility.

c. Assessment Conclusion: Areas Requiring Cleanup and/or Decontamination:

1) Tanks: Many if not all tanks (including hazardous waste tanks) contain substances that would classify as a characteristic or listed waste per 40 CFR 261 upon process shutdown. Process tanks and associated lead liners will require decontamination prior to disposal. The FDEP district officer has exempted the facility from Subpart J (tanks) of 40 CFR 264 due to current process practices, but may become applicable (including closure/post closure requirements) if tanks contents are not properly disposed of within 90 days of shutdown and facility is determined to be an illegal Treatment, Storage or Disposal facility (TSD).

2) Building Structure and Utilities: Building structure is likely heavily contaminated with process chemicals and substances due to spills, fumes, and limited engineering controls. Due to heavy likely contamination, if facility cannot be reutilized for a similar industrial process, demolition may be most effective, however special handling of materials may be required (to be confirmed by sampling). The following is the initial list of facility components that are likely heavily contaminated.

- (1) Basement Floor, particularly sumps, floor drains, and Nickel plating process area

- (2) Tanks Ventilation and Scrubber System
- (3) Process Waste Collection Piping System (including all floor and tank drains and piping)
- (4) Basement and 1st Floor Interior Walls
- (5) Steam Condensate System (leaks in tank steam heating coils??)
- (6) 2nd Floor — Waste Treatment Containment areas (current cyanide destruct system: Note that floor drains discharge to basement sumps A & B)
- (7) 2nd Floor — Scrubber Filter Washer and nearby floor space
- (8) 2nd Floor — Scrubber Locations (observed leaks caused from condensation of vapors at scrubber and associated ventilation ducting)
- (9) 2nd Floor — Hazardous Materials Storage Areas (Note: indications that floor drains from northwest corrosive storage discharges to storm sewer system)
- (10) 2nd Floor — Lab (including sink and drains)
- (11) Built-up Roof (Likely Chromium, cadmium, and nickel contamination of roofing material due to fumes)
- (12) Southeast Exterior Wall (Observed evidence of 2nd floor scrubber filter washer leakage running down building exterior to grass area and possibly storm water collection pit)
- (13) Northwest Exterior Wall (Heavy staining observed at main ventilation intake)
- (14) Downspouts (may be transporting roof contaminants to storm water collection system)

3) Historical Investigation Conclusions: The data collected from refs 3, 4, & 5 have would meet the requirements of a CERCLA Site Investigation. Since there is strong evidence of release(s) or potential releases, this facility should be incorporated into the CERCLA Site Management Plan as a Site,



and Remedial Investigation and Feasibility Study be initiated by the IRP Team under NAS Pensacola's Federal Facility Agreement.

(A) Soils: There is a high possibility of contaminated soils under the plating shop. Ground water sampling results indicate that the plating facility is a likely source of contamination. While borings taken indicate only high levels of lead and manganese in subsurface soils, no samples were taken near or underneath the structure which is likely heavily contaminated through releases from basement and sump leaching. Since surface soils were not collected, potential contamination from air emissions, roof and storm water runoff, and filter washing machine are not known.

(B) Air: Emissions from the plating process went up through ventilators and fans, and likely released chromium, cadmium, silver and nickel to the roof and nearby environment. Also possible is release of acidic and/or alkali materials which may make metals more mobile in soils.

(C) Ground Water: As previously discussed high concentrations of various organic and inorganic contaminants were found well above promulgated drinking water standards and surface water criteria (if groundwater discharges to the nearby bay). The facility appears to be a source of contamination. Due to heavy concentration of contaminants and likely continuing releases from the plating facility, a ground water sampling and analysis program should be conducted as soon as possible to determine the extent of contamination and if potential or current exposure pathways are present.

c. Regulatory Issues: COMMUNICATE EARLY WITH FDEP DISTRICT. Ensure disposal of various containers of hazardous materials that are determined to be waste in accordance with approved procedures accepted by the Pensacola FDEP and base RCRA permit. Process and waste tanks must be emptied (contents properly disposed of) and decontaminated within 90 days of facility shutdown to avoid classification as an illegal TSD and implementation of closure and post closure requirements outlined in 40 CFR 264 (tanks are listed in subpart J). Tanks and tank liners may possibly be classified as a hazardous waste (check with FDEP). Facility demolition planning will need to address the possible disposal of structural components (roof, walls, floors, sumps, and etc) and support systems (ventilation ducts, piping, and etc) as a hazardous waste (coordinate with FDEP)

Upon closure this facility will be within preview of CERCLA. Further site screening investigation (SI) efforts are not recommended due to concentration of contaminants found as supported by previous investigations. The facility should

be listed as a CERCLA Site, and a Remedial Investigation be planned and conducted by NAS Pensacola's IRP Team.

## 5. RECOMMENDATIONS

### a. Facility Decommissioning Recommendations:

NOTE: Since the original 604 structure may potentially be placed on the Historical record, ensure SHPO is involved in the planning process and approves all work for potential related impacts.

1) Planning. Generate a facility decommission and closure plan. Without a detailed plan it is unlikely NAS Pensacola will be able to decommission the plant within the regulatory 90 days based similar closing events experienced by Charleston Shipyard and NAS Jacksonville. Plan should include such details as:

- Decommissioning processes,
- Sequence of tank closure,
- Classify and dispose of excess plating materials,
- Characterization, Cleaning and Disposition of tanks; exhaust ventilation ducts and scrubbers; waste collection piping; steam condensate piping/tanks; waste treatment equipment (cyanide destruct system and etc); scrubber filter washing equipment; hazardous materials storage areas; lab facility; building walls, concrete floors and associated structures..
- Task and assist IRP team with determining sampling procedures and protocols and conduct sampling of tanks, piping, walls, floors, roof and misc supporting structure to determine level of contamination, whether material could be classified as a hazardous waste to provide information for restoration decision making (i.e. demolition vice decontamination – use either DERA dollars or other if facility to be reutilized)
- Task IRP Team with including facility in Site Management Plan for scheduling and conducting a Remedial investigation and Feasibility Study.

Recommend if the plating shop remains operational past Sep 95 due to Dynamic Components Shop requirements, the decommission plan be



phased with those plating lines not required being decommissioned after Sep 95. Recommend reviewing plan with CERCLA IRP Team and District FDEP office to ensure meeting all RCRA and permit requirements as well as long term environmental restoration goals.

Note: Contact Bobby Dearhart, BRAC Environmental Coordinator at Charleston Naval Shipyard. The shipyard has established a detailed plan for decommissioning and closure plan of a similar facility.

2) Post Decommissioning: Recommend transferring environmental restoration responsibility to Installation Restoration Team for complete characterization of contaminants. Recommend to the Installation Restoration Team that a Remedial Investigation/Feasibility Study be initiated due to type of waste practices, high levels of contamination, and documented impacts to ground water.

NOTE: Recommend reviewing Ref (5) to determine if discovery as a SWMU or AOC is required — Coordinate with IRP team who has responsibility for administering this program and assumption of related liabilities.

b. Installation Restoration Program (IRP) Recommendations: Recommend CERCLA response by conducted. Recommend initiating a Remedial Investigation to define the extent of contamination and determine if unacceptable risks to human health and the environment exist due the apparent high concentrations of contaminant at this facility. The investigation should include:

A comprehensive surface and subsurface soil (including corings in basement) sampling and analysis program will be required to conclusively establish if releases have occurred, extent of contamination, if source of ground water contamination, if presents any unacceptable risks, and what remediation will be done (if required). Note: It is possible that soils under facility are in the saturated zone which will effect soil characterization protocols as well as remediation technologies. Also facility storm sewer collection and outfall points should be evaluated as there are indications contaminants may have been transported.

Recommend considering an interim ground water containment action, if ground water is available to any wells or is discharging to Pensacola Bay. A comprehensive sampling and analysis program (CERCLA Remedial Investigation) will be required to conclusively establish if releases have occurred or potentially may occur, extent of contamination, source of ground water contamination, presents any current or future unacceptable risks, and what remediation will be done (if required).

c. Cost Data:

1) IRP Investigation: To be determined during the scoping of the RI as part of workplan approval. Estimate need \$1,000,000 for DERA budgeting. Estimate based on a typical RI and risk assessment with consideration that additional surface sampling will be necessary to determine if lead contamination was transported by air emissions. Demolition if recommended as a remedial action decision

2) Decommissioning: May be able to do facility clean-up with mostly in-house and PWC staff. Estimate does not include costs for disposal of usable equipment and/or materials since that will be determined by DRMO. based on costs estimated and expended by NAS Jacksonville during demolition of a similar facility, the following cost estimate is provided:

Drum/Tank/Struct Demo/Removal	\$800,000
Monitor/Sample/Test	\$300,000 (IRP Item?)
Other Decon/Site Restoration	\$200,000

ATTACHMENTS: (1) Historical Record and Facility Photo  
(2) Hazardous Materials List



FLORIDA MASTER SITE FILE  
Site inventory Form

SITE NO.

SITE NAME: Naval Aircraft Rework and Repa  
BLDG NUMBER: 00604  
MAP NUMBER: 1276829

SURVEY DATE: 11/30/85

LOCATION: Pensacola Naval Air Station  
Subdivision Name

Block No. Lot No.

COUNTY: Escambia

DISTRICT NAME IF APPLICABLE:

OWNER OF SITE: NAME: Department of Navy  
ADDRESS:

ADDRESS:

TYPE OF OWNERSHIP: Government

RECORDING DATE: 01/31/86

RECORDER: NAME & TITLE: Historic Property Associates

ADDRESS: P.O. Box 1002

St. Augustine, FL 32085

CONDITION OF SITE:

INTEGRITY OF SITE:

Check One

Check one or more

x EXCELLENT

x ALTERED

ORIGINAL USE

GOOD

UNALTERED

PRESENT USE Industrial

FAIR

x ORIGINAL SITE

DATES 1937

DETERIORATED

RESTORED: / /

CULTURE/PHASE American

MOVED: / /

PERIOD: 20th Century

NR CLASSIFICATION CATEGORY: Building

DATE LISTED ON NR: / /

THREATS TO SITE: Check one or more

ZONING

TRANSPORTATION

x DEVELOPMENT

FILL

DETERIORATION

DREDGE

BORROWING

OTHER (See Remarks Below)

AREAS OF SIGNIFICANCE: Military, architecture

SIGNIFICANCE

See Continuation Sheet

## CONTINUATION SHEET

### Statement of Significance:

Building 604, Naval Air Rework and Repair Facility, is a two-story, irregular, masonry vernacular structure built in 1937 and located on the west side of East Avenue in the old Navy Yard. It features massive, multi-light roll-away doors across its main facades, with projecting towers at either end of the doors. Cast stone on a first floor sill course, a second floor lintel course, a water table, and second floor sills decorate the building and add to its monumental character. The flat, built-up parapet roof has a copper parapet cornice at the center pavilion of the building and copper hip roofs over the center pavilion towers. Windows are multi-light awning types. A new addition to the west side of the building is sympathetic to the original, including the various decorative stone courses. Building 604 is part of the 1935-1945 construction boom at the Naval Air Station.

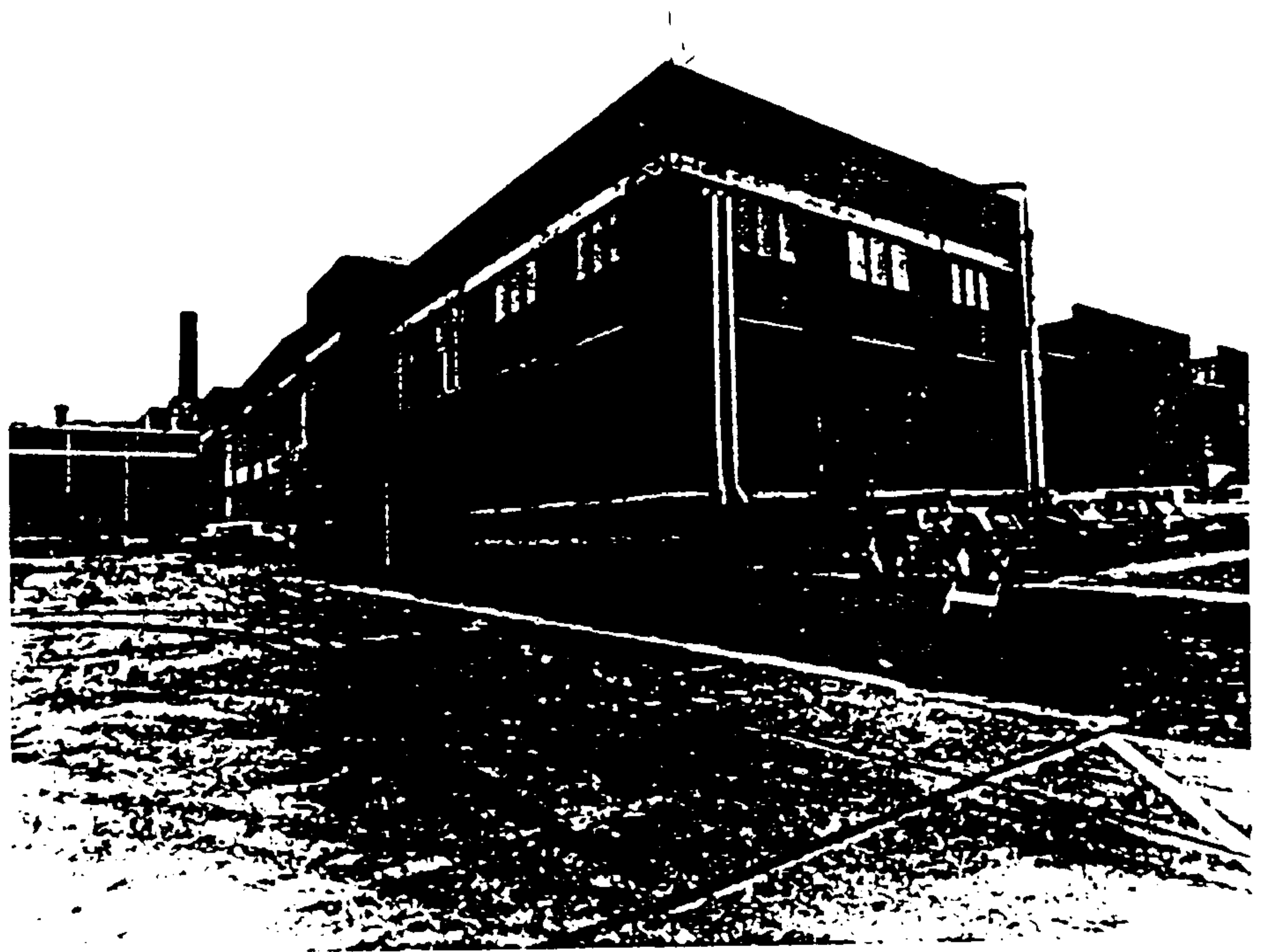
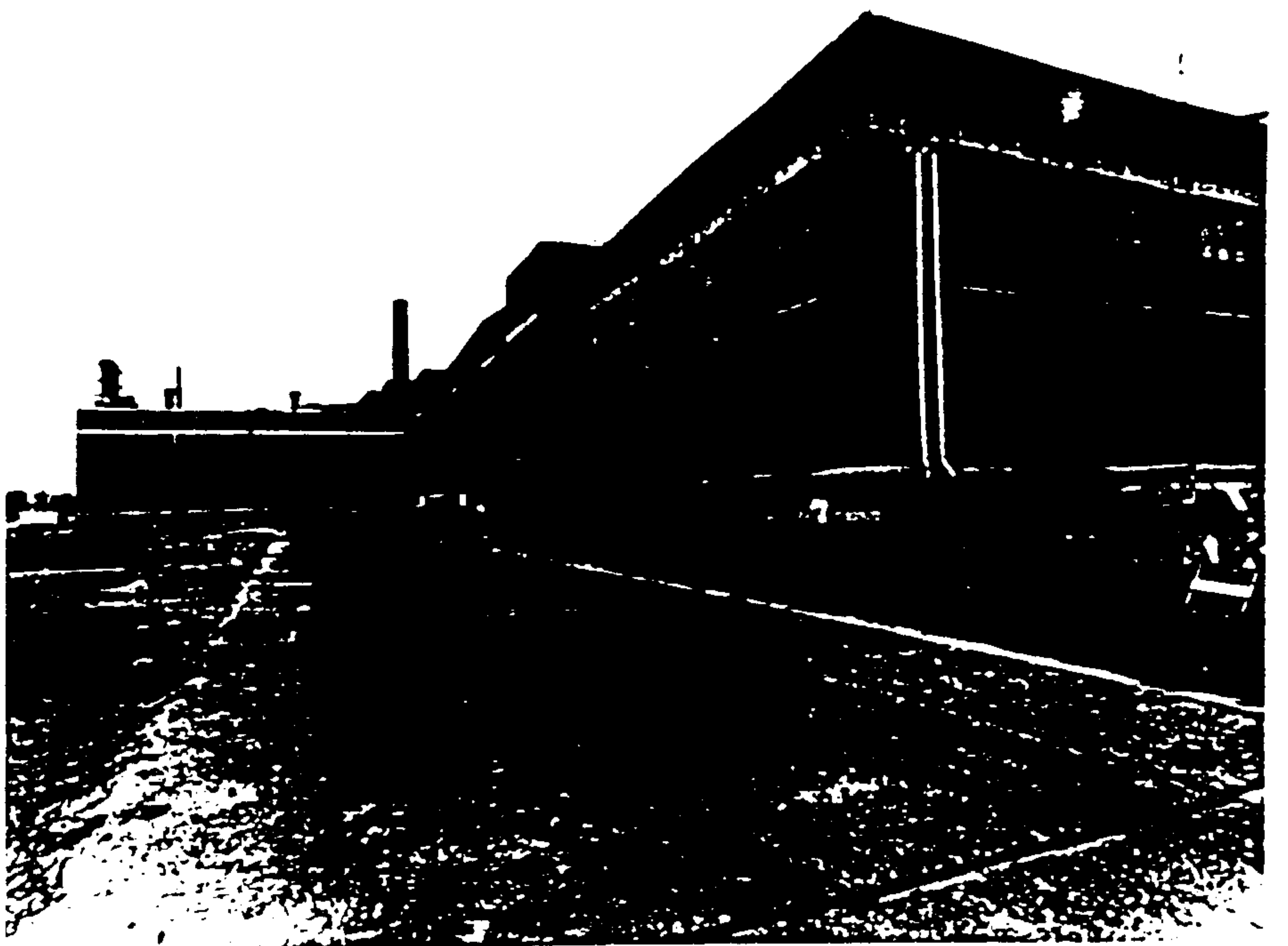
Building 604 is located within the Pensacola Naval Air Station, which is situated at the western entrance to Pensacola Bay, on the Gulf of Mexico, in the Florida Panhandle. Owing to the location's strategic importance, French, British, and Spanish governments each established a military presence in the vicinity. The U.S. Navy maintained the Pensacola Navy Yard there from 1825 to 1914, although the military role of the base was relatively insignificant throughout the nineteenth century. A small installation before World War I, the Navy Yard was enclosed by a high brick wall, constructed in 1837, and surrounded on its inland sides by the villages of Woolsey and Warrington. The Navy Yard closed in 1911, but reopened in 1914 as the Pensacola Naval Aeronautic Station. Renamed the Naval Air Station in 1917, it served as a training center for naval aviators and earned a reputation as the "Cradle of Naval Aviation." The station leaped beyond the walls of the original Navy Yard after the war to incorporate its neighboring villages, which were removed in 1922 and 1931. Amid international tensions in the late 1930s, the station experienced dramatic physical expansion. Graduates of its aviation training program participated in all of the nation's major naval engagements during World War II. The Naval Air Station Pensacola continues to emphasize naval aviation training and currently serves as the headquarters for the Naval Education Training Command. (1)

### Footnotes:

1. See Historic Property Associates, Historic Sites and Property Survey of the Pensacola Naval Air Station (Pensacola, 1986).



1990



## **Appendix C**

### **Results of the ABB UST Investigation**



# WELL COMPLETION LOG

LOCATION: NASDEP

WORK ORDER # 2971

ADDRESS: SR 295 PENSACOLA, FLORIDA 3045

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

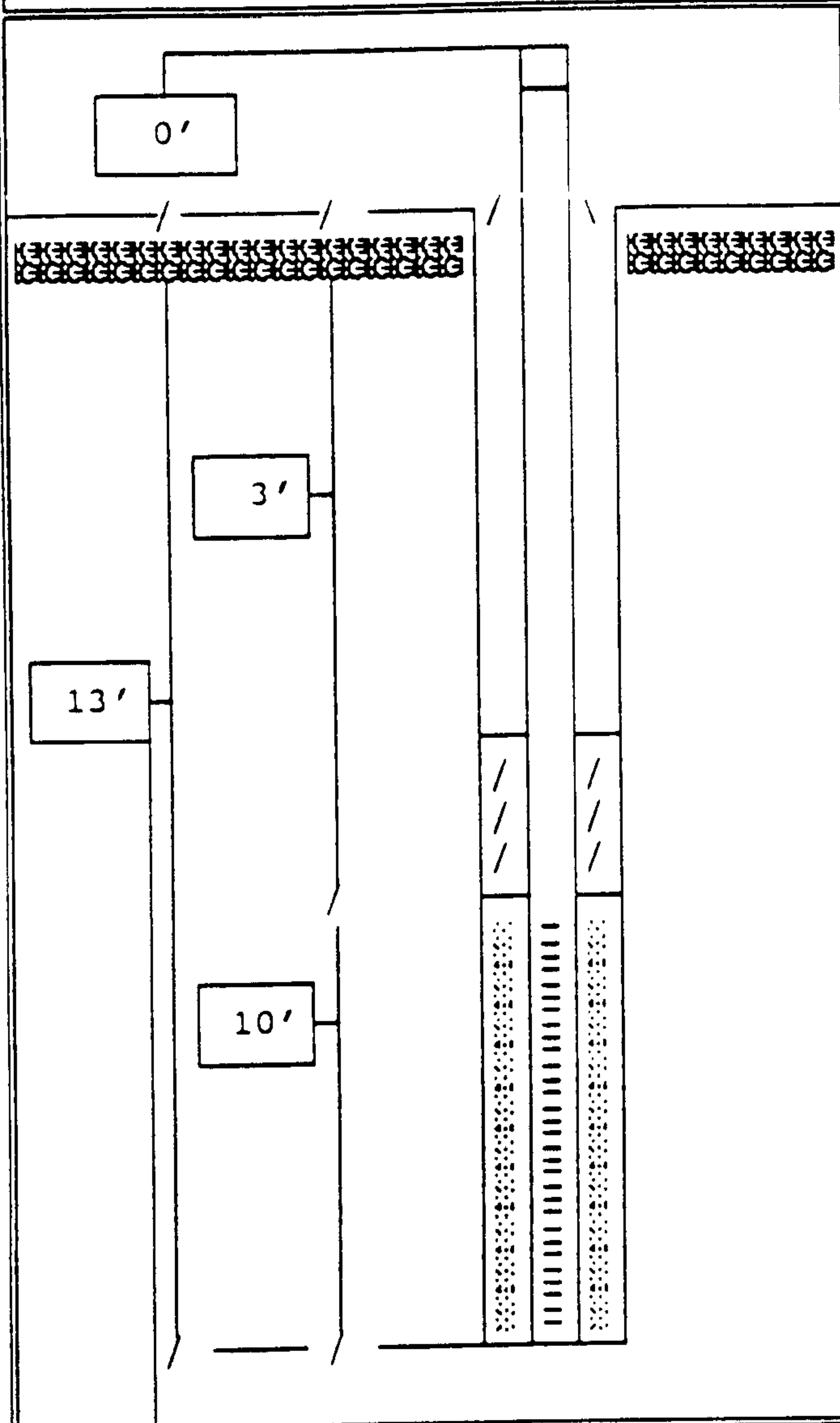
DATE 01/22/92

WELL NUMBER: MW#1

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE

ABOVE GRADE PROTECTOR

NONE

CONCRETE 2 BAGS

CEMENT GROUT .5 BAGS

RISER - TYPE PVC

RISER - SIZE 2"

BENTONITE X

FINE SAND

SCREEN - TYPE PVC

SCREEN - SIZE 2" .010 SLOT

FILTER TYPE 20-30 SILICA SAND

6 X 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE

TOTAL TIME: 10 MINUTES

TOTAL GALLONS: 40

WATER APPEARANCE: START CLOUDY BROWN

FINISH CLEAR

0000001

## WELL COMPLETION LOG

LOCATION: NASDEP

WORK ORDER # 2971

ADDRESS: SR 295 PENSACOLA, FLORIDA 304S

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

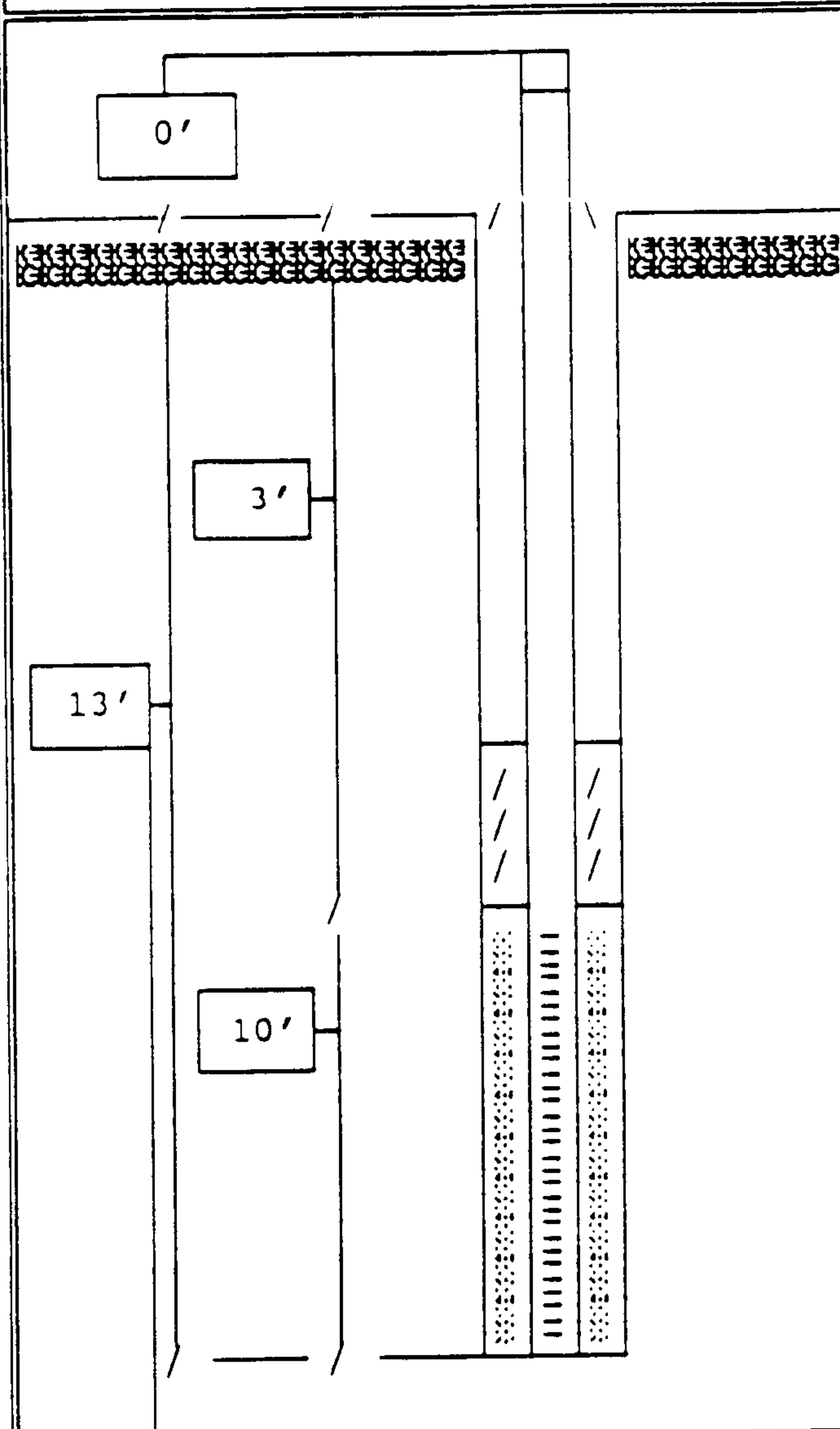
DATE 01/22/92

WELL NUMBER: MW#2

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE

ABOVE GRADE PROTECTOR

NONE

CONCRETE 2 BAGS

CEMENT GROUT .5 BAGS

RISER - TYPE PVC

RISER - SIZE 2"

BENTONITE X

FINE SAND

SCREEN - TYPE PVC

SCREEN - SIZE 2" .010 SLOT

FILTER TYPE 20-30 SILICA SAND

6 X 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE

TOTAL TIME: 10 MINUTES TOTAL GALLONS: 40

WATER APPEARANCE: START CLOUDY BROWN FINISH CLEAR

0000002



# WELL COMPLETION LOG

LOCATION: NASDEP

WORK ORDER # 2971

ADDRESS: SR 295 PENSACOLA, FLORIDA 304S

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

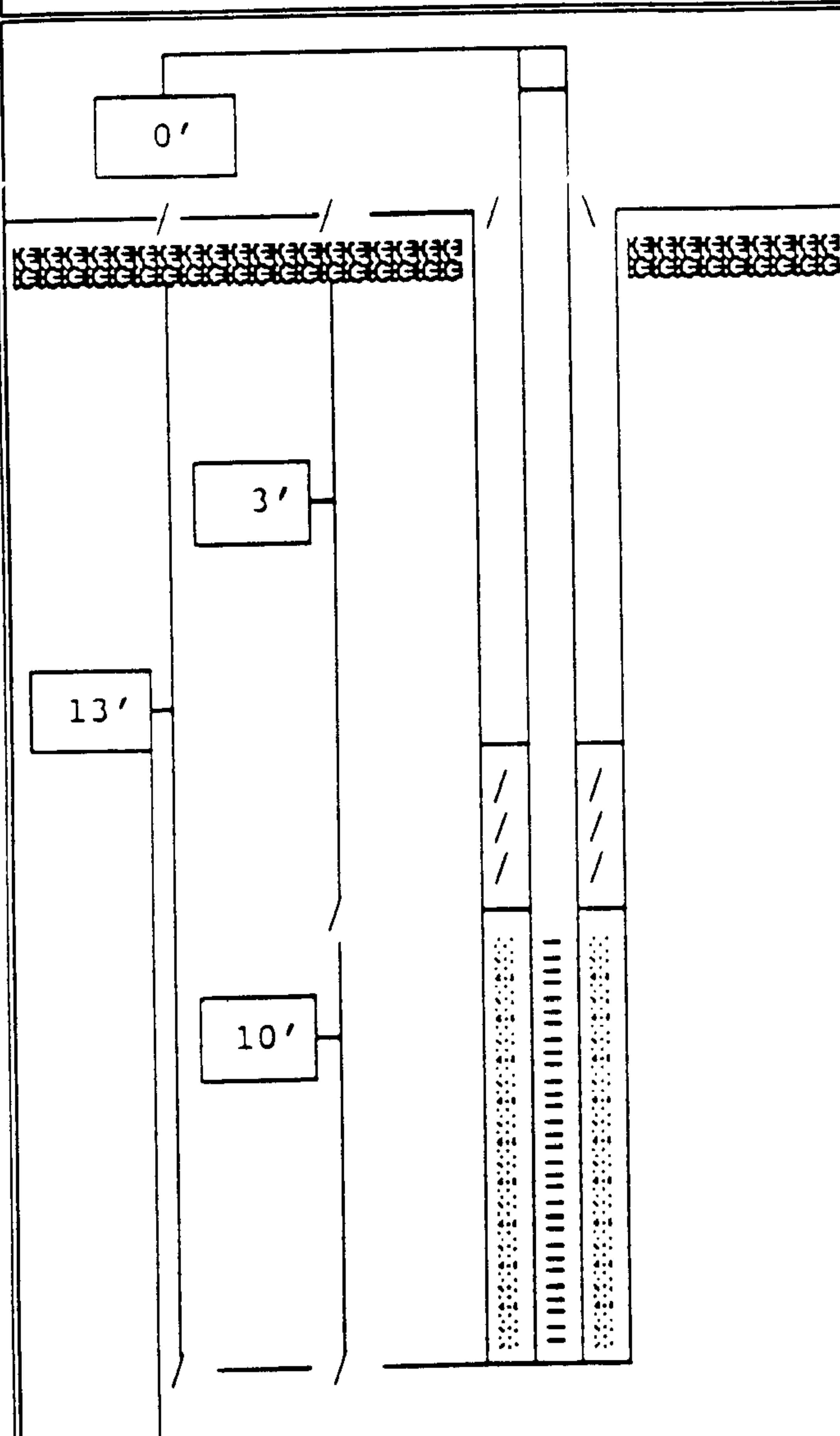
DATE 01/22/92

WELL NUMBER: MW#3

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE  
 ABOVE GRADE PROTECTOR  
 NONE  
 CONCRETE 2 BAGS  
 CEMENT GROUT .5 BAGS  
 RISER - TYPE PVC  
 RISER - SIZE 2"  
 BENTONITE X  
 FINE SAND  
 SCREEN - TYPE PVC  
 SCREEN - SIZE 2" .010 SLOT  
 FILTER TYPE 20-30 SILICA SAND  
 6 X 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE  
 TOTAL TIME: 10 MINUTES TOTAL GALLONS: 40  
 WATER APPEARANCE: START CLOUDY BROWN FINISH CLEAR

0000003

# WELL COMPLETION LOG

LOCATION: NASDEP

WORK ORDER # 2971

ADDRESS: SR 295 PENSACOLA, FLORIDA 304S

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

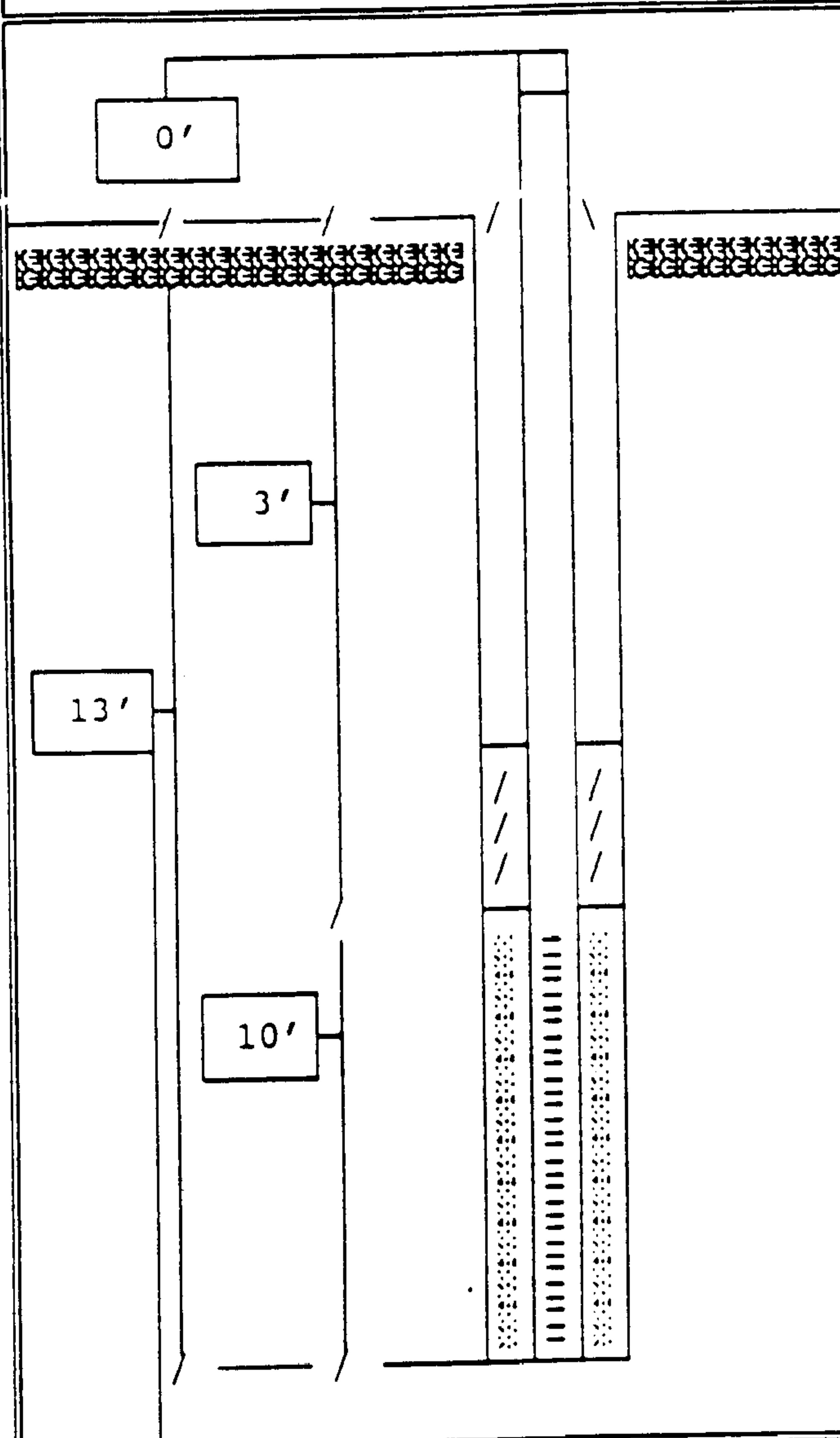
DATE 01/22/92

WELL NUMBER: MW#4

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE  
 ABOVE GRADE PROTECTOR  
 NONE  
 CONCRETE 2 BAGS  
 CEMENT GROUT .5 BAGS  
 RISER - TYPE PVC  
 RISER - SIZE 2"  
 BENTONITE X  
 FINE SAND  
 SCREEN - TYPE PVC  
 SCREEN - SIZE 2" .010 SLOT  
 FILTER TYPE 20-30 SILICA SAND  
 6 X 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE

TOTAL TIME: 10 MINUTES TOTAL GALLONS: 40

WATER APPEARANCE: START CLOUDY BROWN FINISH CLEAR

0000004



## WELL COMPLETION LOG

LOCATION: NASDEP

WORK ORDER # 2971

ADDRESS: SR 295 PENSACOLA, FLORIDA 304S

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

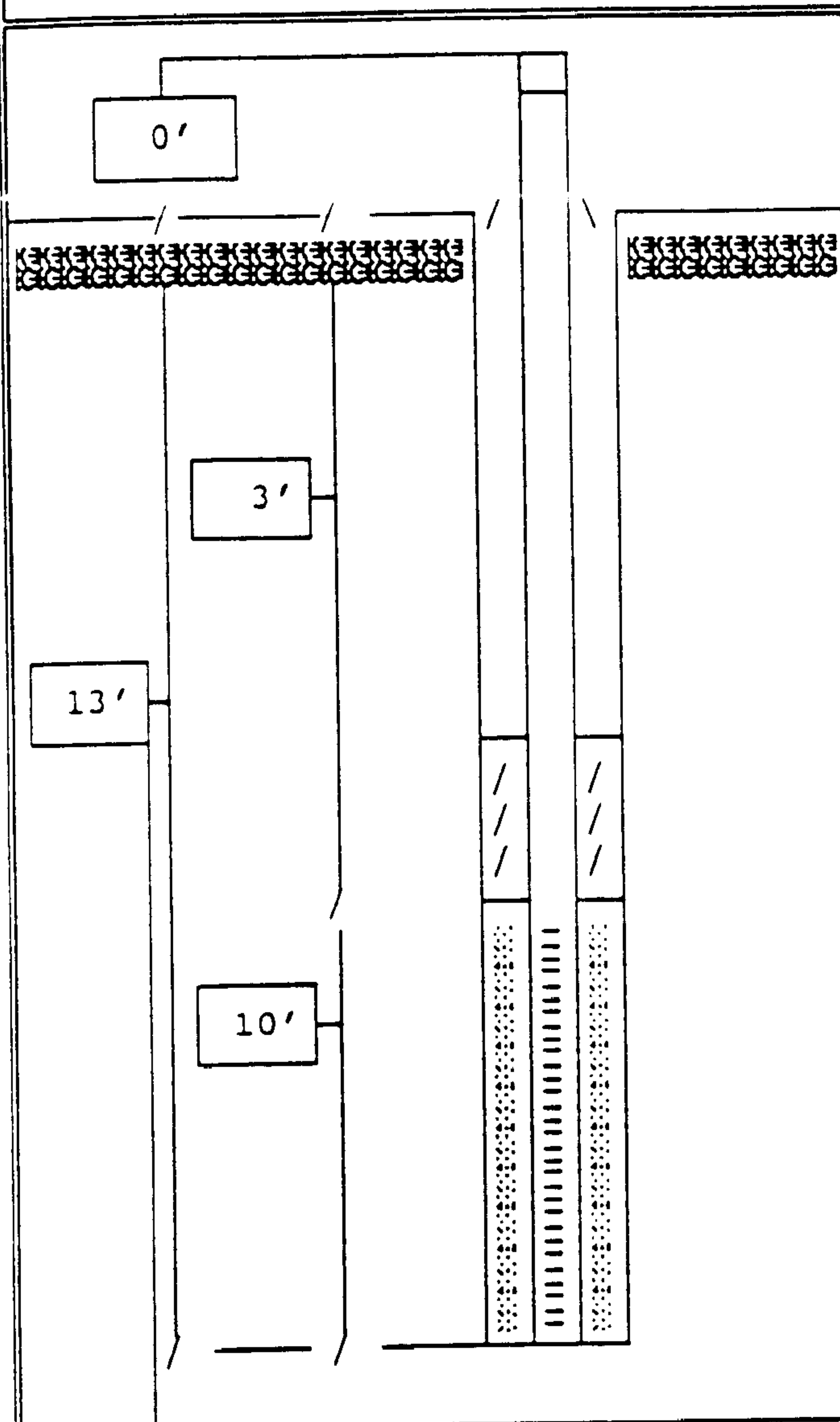
DATE 01/22/92

WELL NUMBER: MW#5

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE

ABOVE GRADE PROTECTOR

NONE

CONCRETE 2 BAGS

CEMENT GROUT .5 BAGS

RISER - TYPE PVC

RISER - SIZE 2"

BENTONITE X

FINE SAND

SCREEN - TYPE PVC

SCREEN - SIZE 2" .010 SLOT

FILTER TYPE 20-30 SILICA SAND

6 X 50 LB BAG

DEVELOPMENT: BAILED \_\_\_\_\_ PUMPED X AIR LIFT \_\_\_\_\_ SURGE \_\_\_\_\_ SWAB \_\_\_\_\_ NONE \_\_\_\_\_

TOTAL TIME: 10 MINUTES

TOTAL GALLONS: 40

WATER APPEARANCE: START CLOUDY BROWN FINISH CLEAR

0000005

# WELL COMPLETION LOG

LOCATION: NASDEP

WORK ORDER # 2971

ADDRESS: SR 295 PENSACOLA, FLORIDA 304S

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

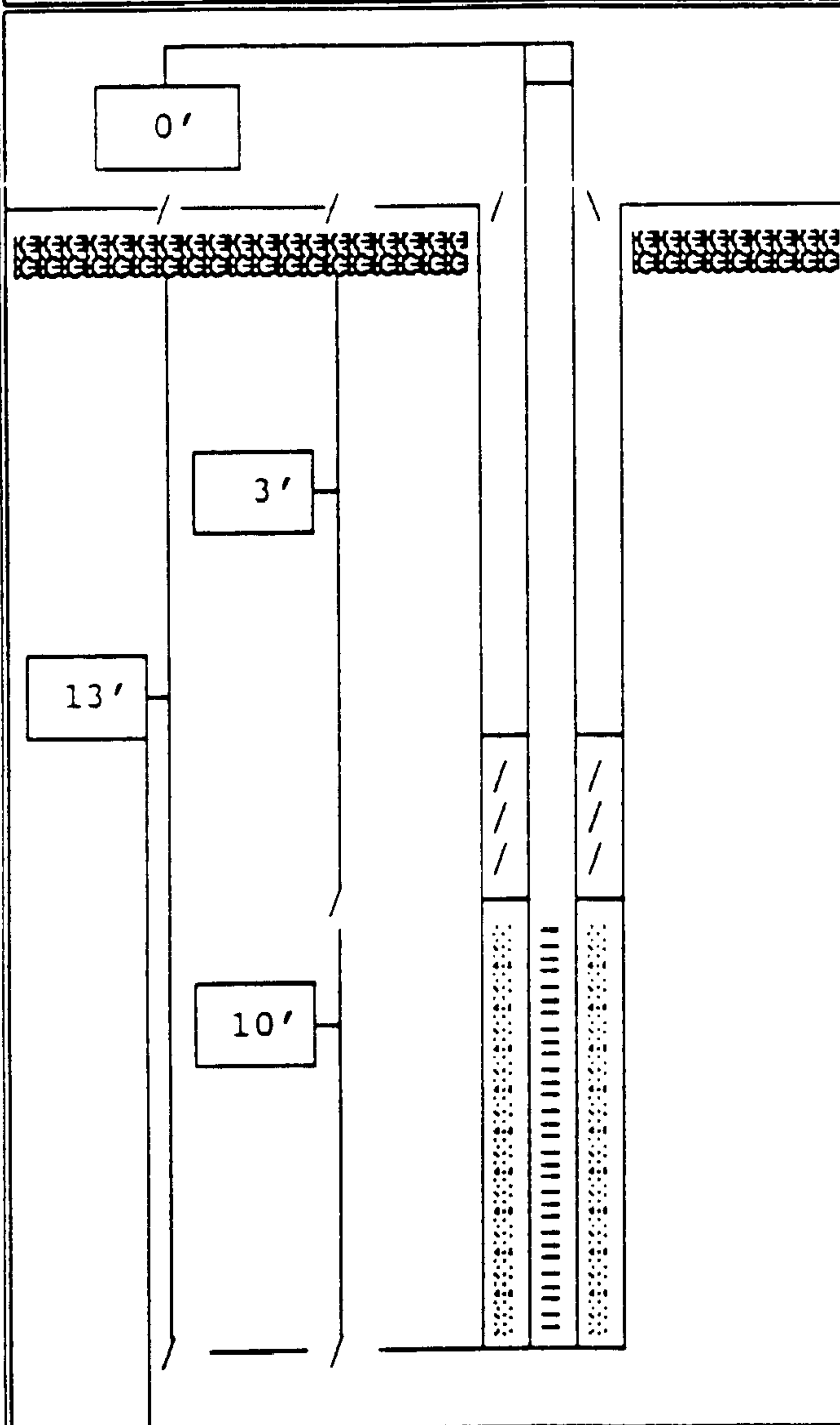
DATE 01/22/92

WELL NUMBER: MW#6

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE

ABOVE GRADE PROTECTOR

NONE

CONCRETE 2 BAGS

CEMENT GROUT .5 BAGS

RISER - TYPE PVC

RISER - SIZE 2"

BENTONITE X

FINE SAND

SCREEN - TYPE PVC

SCREEN - SIZE 2" .010 SLOT

FILTER TYPE 20-30 SILICA SAND

6 X 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE

TOTAL TIME: 10 MINUTES

TOTAL GALLONS: 40

WATER APPEARANCE: START

CLOUDY BROWN

FINISH

CLEAR

0000006



# WELL COMPLETION LOG

LOCATION: NADEP

WORK ORDER # 2971

ADDRESS: PENSACOLA 604S

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

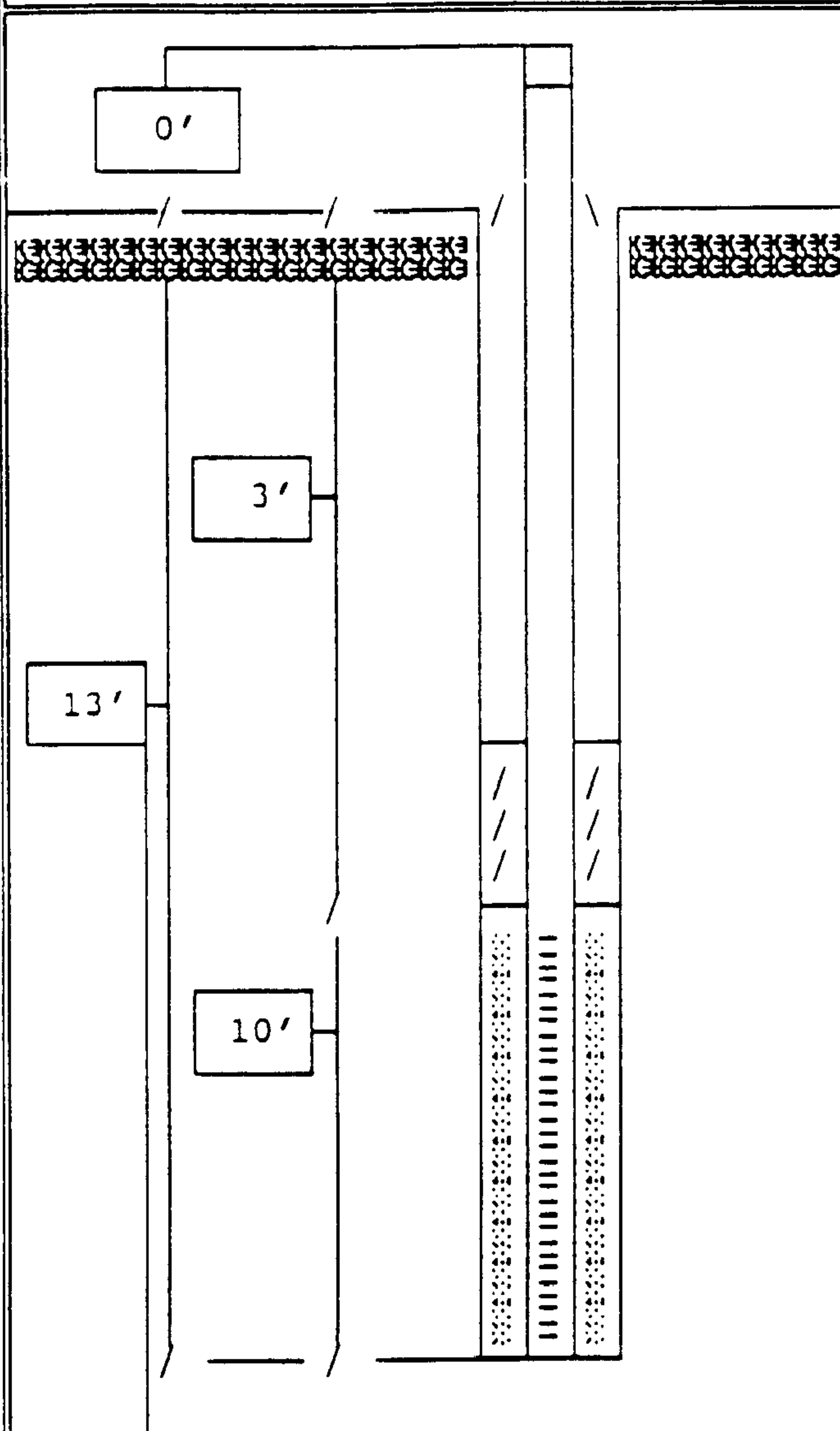
DATE 02/09/92

WELL NUMBER: MW#8

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE  
 ABOVE GRADE PROTECTOR  
 NONE  
 CONCRETE 2 BAGS  
 CEMENT GROUT .5 BAGS  
 RISER - TYPE PVC  
 RISER - SIZE 2"  
 BENTONITE X  
 FINE SAND  
 SCREEN - TYPE PVC  
 SCREEN - SIZE 2" .010 SLOT  
 FILTER TYPE 20/30 SILICA SAND  
 7 - 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE

TOTAL TIME: 15 MINUTES

TOTAL GALLONS: 50

WATER APPEARANCE: START CLOUDY

FINISH CLEAR

0000007

# WELL COMPLETION LOG

LOCATION: NADEP

WORK ORDER # 2971

ADDRESS: PENSACOLA 604S

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

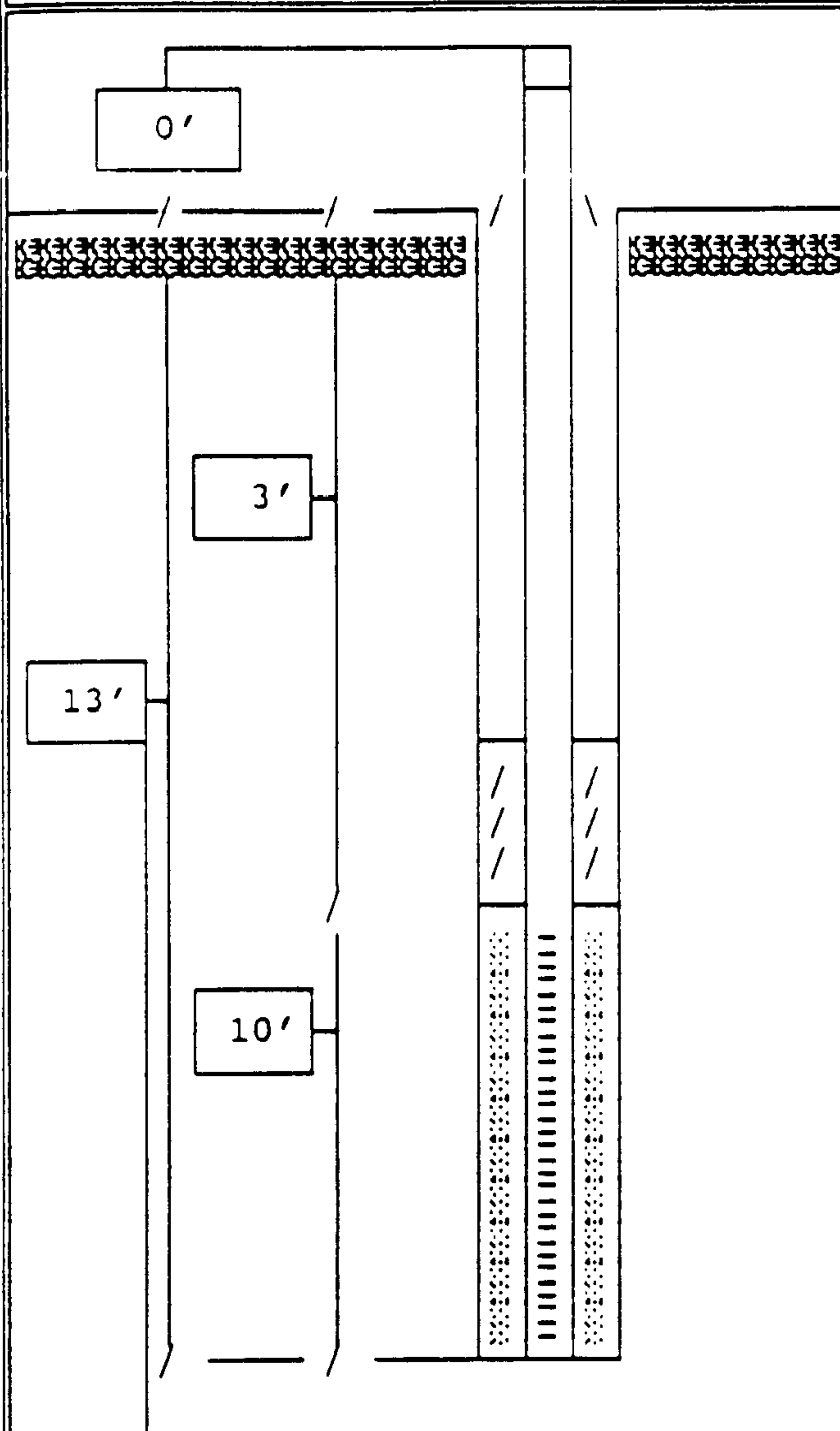
DATE 02/09/92

WELL NUMBER: MW#9

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE

ABOVE GRADE PROTECTOR

NONE

CONCRETE 2 BAGS

CEMENT GROUT .5 BAGS

RISER - TYPE PVC

RISER - SIZE 2"

BENTONITE X

FINE SAND

SCREEN - TYPE PVC

SCREEN - SIZE 2" .010 SLOT

FILTER TYPE 20/30 SILICA SAND

7 - 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE

TOTAL TIME: 15 MINUTES

TOTAL GALLONS: 50

WATER APPEARANCE: START CLOUDY

FINISH CLEAR

0000008



## WELL COMPLETION LOG

LOCATION: NADEP

WORK ORDER # 2971

ADDRESS: PENSACOLA 604S

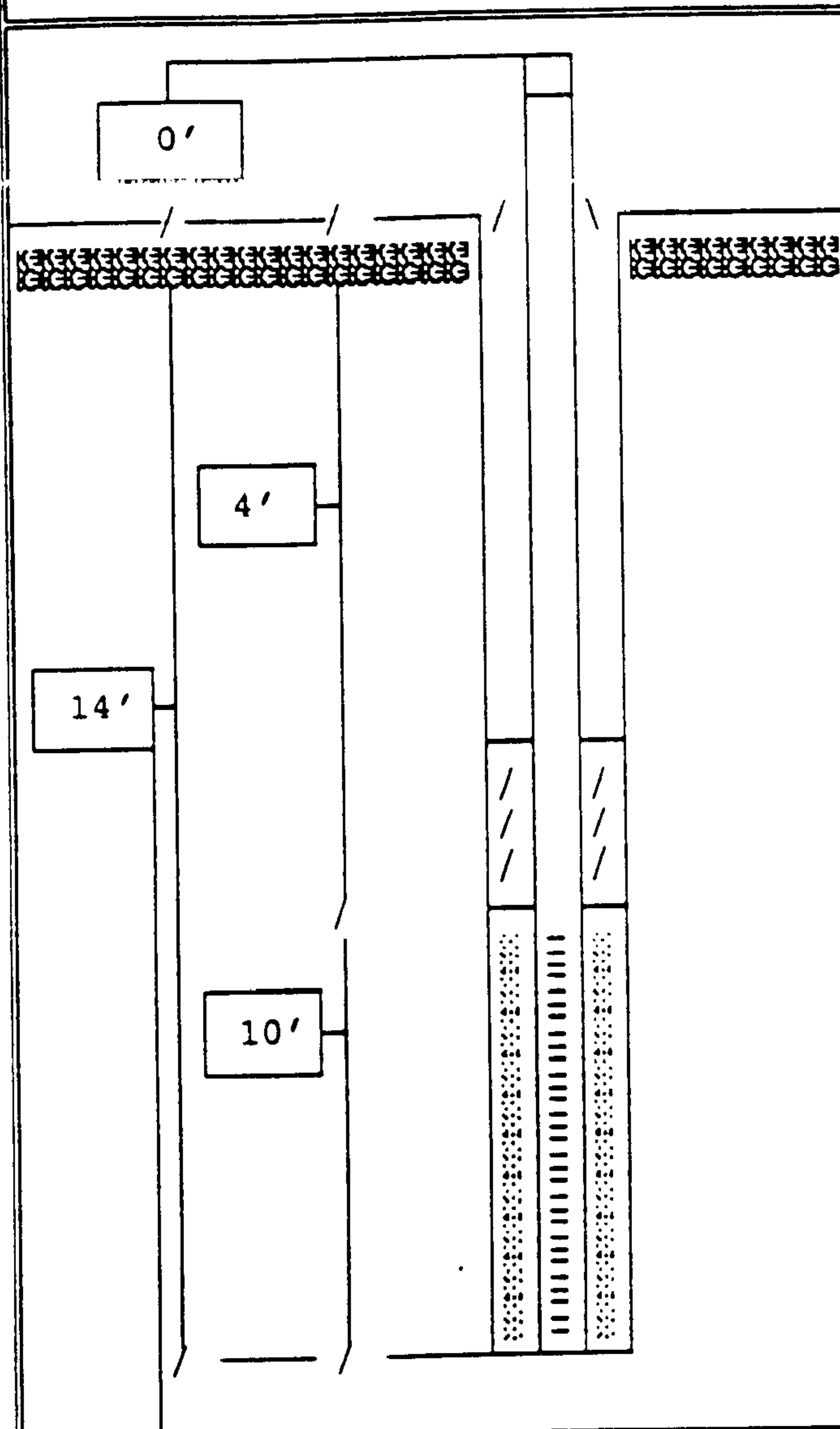
CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

DATE 02/22/92

WELL NUMBER: MW#10 CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE

ABOVE GRADE PROTECTOR

NONE

CONCRETE 2 BAGS

CEMENT GROUT 1 BAGS

RISER - TYPE PVC

RISER - SIZE 2"

BENTONITE X

FINE SAND

SCREEN - TYPE PVC

SCREEN - SIZE 2" .010 SLOT

FILTER TYPE 20/30 SILICA SAND

6 - 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE

TOTAL TIME: 15 MINUTES

TOTAL GALLONS: 50

WATER APPEARANCE: START CLOUDY BROWN FINISH CLEAR

0000000

# WELL COMPLETION LOG

LOCATION: NADEP

WORK ORDER # 2971

ADDRESS: PENSACOLA 604S

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

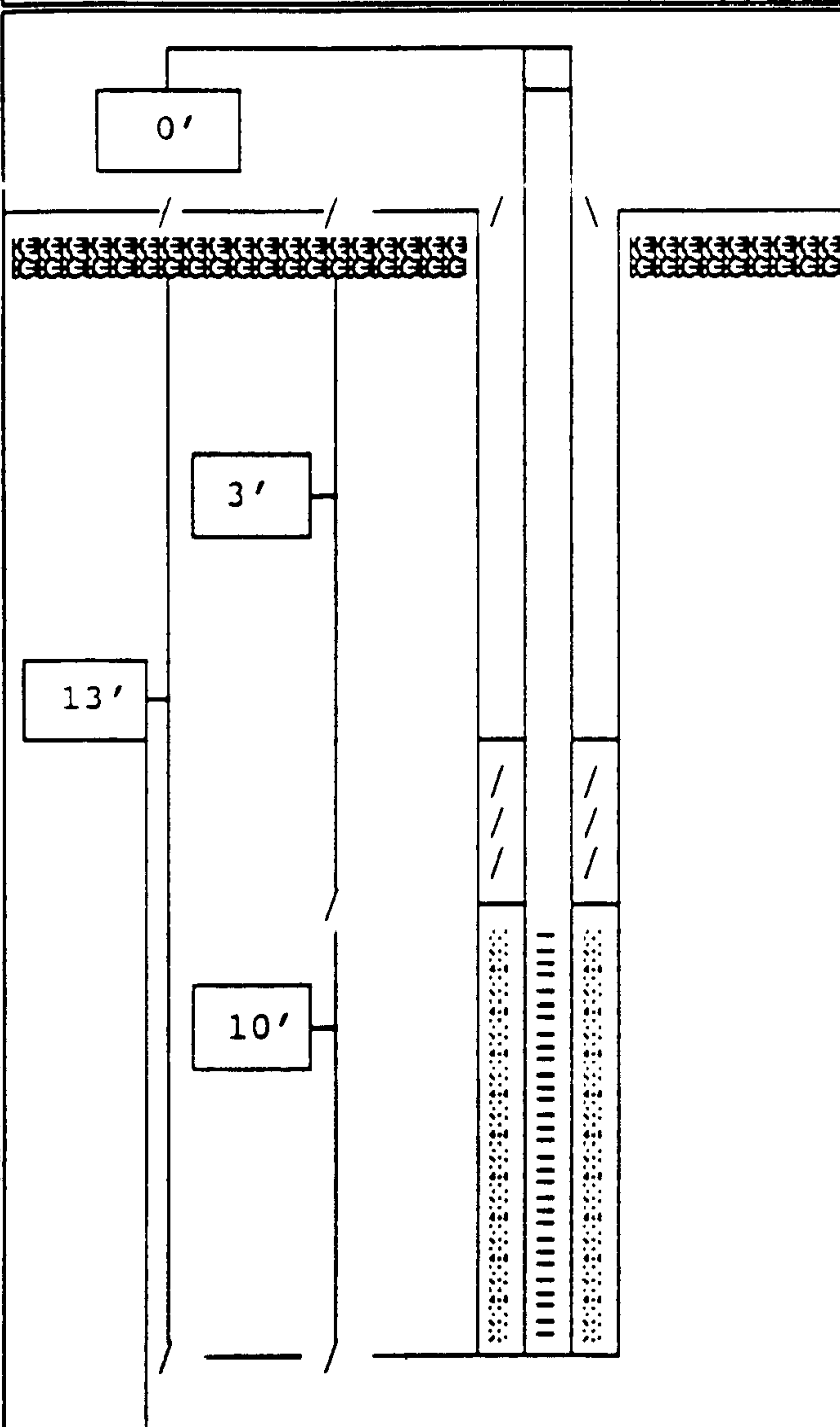
DATE 02/22/92

WELL NUMBER: MW#11

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE  
 ABOVE GRADE PROTECTOR  
 NONE  
 CONCRETE 2 BAGS  
 CEMENT GROUT .5 BAGS  
 RISER - TYPE PVC  
 RISER - SIZE 2"  
 BENTONITE X  
 FINE SAND  
 SCREEN - TYPE PVC  
 SCREEN - SIZE 2" .010 SLOT  
 FILTER TYPE 20/30 SILICA SAND  
 6 - 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE

TOTAL TIME: 15 MINUTES

TOTAL GALLONS: 50

WATER APPEARANCE: START CLOUDY

FINISH CLEAR

0000010



# WELL COMPLETION LOG

LOCATION: NADEP

WORK ORDER # 2971

ADDRESS: PENSACOLA 604S

CLIENT: ABB ENVIRONMENTAL SERVICES, INC.

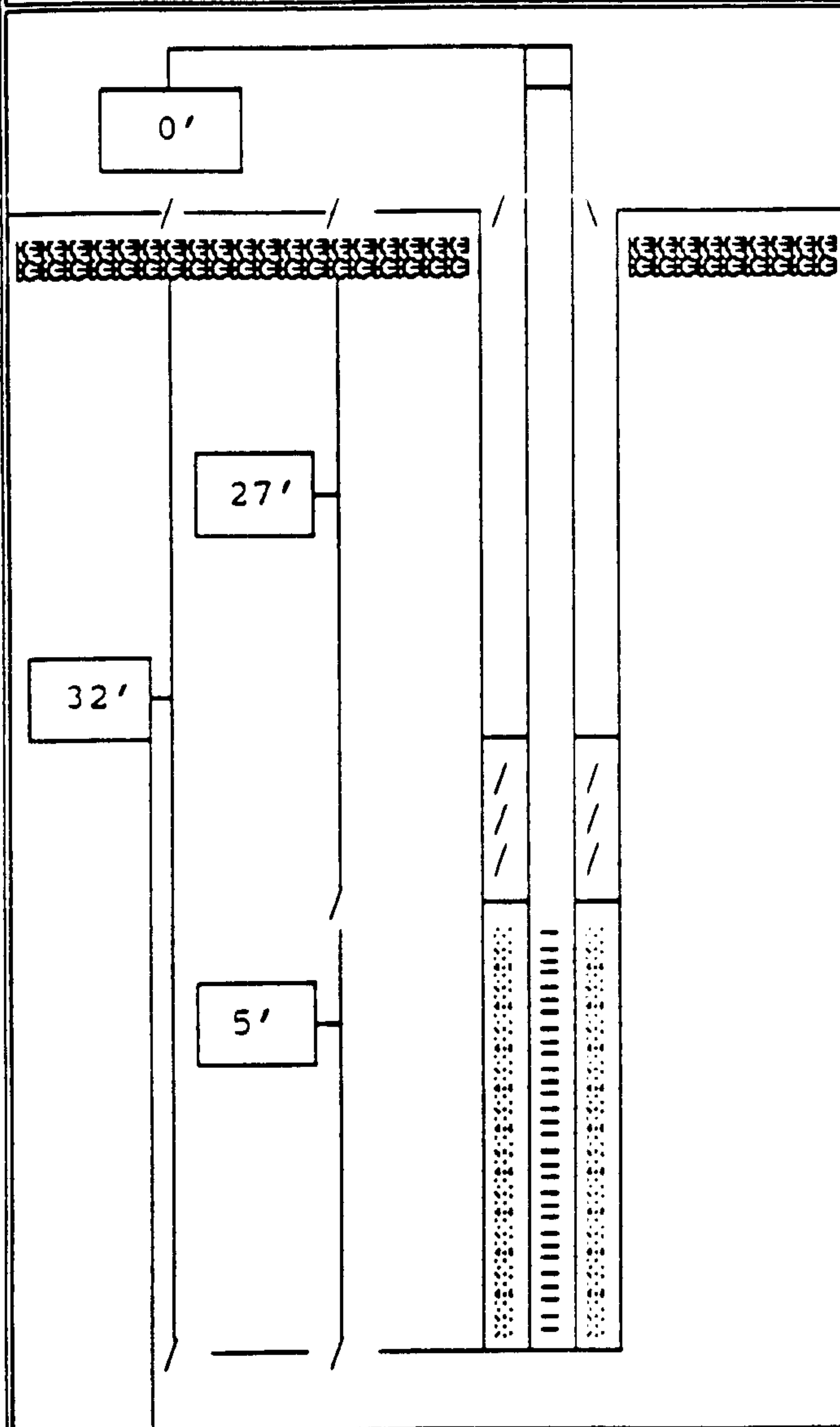
DATE 02/22/92

WELL NUMBER: MW#12D

CONTACT: ROGER DURHAM

INSTALLED BY: R. WILKIE

OTHER SERVICES PERFORMED:



X FLUSH MANHOLE

ABOVE GRADE PROTECTOR

NONE

CONCRETE 2 BAGS

CEMENT GROUT 10 BAGS

RISER - TYPE PVC

RISER - SIZE 2"

BENTONITE

FINE SAND

SCREEN - TYPE PVC

SCREEN - SIZE 2" .010 SLOT

FILTER TYPE 20/30 SILICA SAND

3.5 - 50 LB BAG

DEVELOPMENT: BAILED PUMPED X AIR LIFT SURGE SWAB NONE

TOTAL TIME: 15 MINUTES

TOTAL GALLONS: 50

WATER APPEARANCE: START CLOUDY

FINISH CLEAR

1100000

GROUNDWATER PROTECTION, INC.  
LOG OF BORING

SITE NAME NASDEP

DRILLER

R. WILKIE

LOCATION 295 NAVY RD. 604

DRILL CREW

GEORGE/NICK/BILL S

PENSACOLA

BORING DATE 01/23/92

CLIENT

ABB ENVIRONMENTAL SERVICES, INC. BORING #

MW#7, MW#1, MW#2, MW#

PROJECT # NASDEP

WORKORDER # 2971

METHOD: HAMMER ADV. THRU AUGER X ROTARY SPLIT SPOON X SHELBY TUBE

STATIC WATER LEVEL 5'

SAMP. #	SAMPLE DEPTH	N VALUE	SAMPLE TYPE	WATER PRESENCE	DESCRIPTION/REMARKS
MW#7	0'-4'	0	PH	DRY	LIGHT BROWN MEDIUM SAND
	4'-6'	2,3,4,3	SS	WET	
	10'-12'	6,8,8,12			
	15'-17'	10,11,11,11			
					--END OF BORING--
MW#1	0'-4'	0	PH	DRY	LIGHT BROWN MEDIUM SAND
	4'-6'	1,2,1,2	SS	WET	
	10'-12'	15,18,15,15			
					--END OF BORING--
MW#2	0'-4'	0	PH	DRY	LIGHT BROWN MEDIUM SAND
	4'-6'	3,6,7,11	SS	WET	
	10'-12'	12,17,30,24			
					--END OF BORING--
MW#3	0'-4'	0	PH	DRY	LIGHT BROWN MEDIUM SAND
	4'-6'	1,2,2,1	SS	WET	
	10'-12'	9,15,17,20			
					--END OF BORING--

0000012



GROUNDWATER PROTECTION, INC.  
LOG OF BORING

SITE NAME NASDEP  
LOCATION 295 NAVY RD. 604S  
PENSACOLA  
CLIENT ABB ENVIRONMENTAL SERVICES, INC.  
PROJECT # NASDEP  
DRILLER R. WILKIE  
DRILL CREW GEORGE/NICK/BILL S  
BORING DATE 01/22/92  
BORING # MW#1, MW#2, MW#3  
WORKORDER # 2971

METHOD: HAMMER ADV. THRU AUGER X ROTARY SPLIT SPOON X SHELBY TUBE  
STATIC WATER LEVEL 5'

SAMP. #	SAMPLE DEPTH	N VALUE	SAMPLE TYPE	WATER PRESENCE	DESCRIPTION/REMARKS
MW#1	0'-4'	0	PH	DRY	LIGHT BROWN MEDIUM SAND
	4'-6'	2,2,5,4	SS	WET	
	10'-12'	10,14,17,24			
	15'-17'	6,12,21,25			
					--END OF BORING--
MW#2	0'-4'	0	PH	DRY	BROWN MEDIUM SAND
	4'-6'	2,3,3,2	SS	WET	
	10'-12'	30,10,14,25			
	15'-17'	10,15,40,44			
					--END OF BORING--
MW#3	0'-4'	0	PH	DRY	BROWN MEDIUM SAND
	4'-6'	2,2,3,2	SS	WET	
	10'-12'	5,10,19,26			
	15'-17'	5,9,20,29			
					--END OF BORING--

0000013

0000014



0000015

[illegible]



GROUNDWATER PROTECTION, INC.  
LOG OF BORING

SITE NAME	NADEP	DRILLER	R. WILKIE
LOCATION	604S / 709DN	DRILL CREW	GEORGE/NICK/TIM
	PENSACOLA	BORING DATE	02/24/92
CLIENT	ABB ENVIRONMENTAL SERVICES, INC.	BORING #	MW#10,11,12D,7
PROJECT #	NADEP	WORKORDER #	2971

METHOD: HAMMER ADV. THRU AUGER X ROTARY SPLIT SPOON X SHELBY TUBE

STATIC WATER LEVEL 5.5'

SAMP. #	SAMPLE DEPTH	N VALUE	SAMPLE TYPE	WATER PRESENCE	DESCRIPTION/REMARKS
MW#10	0'-4'	0	PH	DRY	LIGHT BROWN MEDIUM SAND
	4'-6'	2,3,3,3	SS	WET	
	10'-12'	4,7,15,16			
					--END OF BORING--
MW#11	0'-4'	0	PH	DRY	LIGHT BROWN MEDIUM SAND
	4'-6'	3,2,2,2	SS	WET	
	10'-12'	8,7,12,20			
					--END OF BORING--
MW12D	0'-5'	0	PH	DRY	LIGHT BROWN MEDIUM SAND
	20'-22'	25,22,12,12	SS	WET	
	25'-27'	15,13,12,11			
	30'-32'	9,6,5,17			
					--END OF BORING--
MW#7	0'-5'	0	PH	DRY	LIGHT BROWN MEDIUM SAND
	5'-7'	2,1,2,3	SS	WET	
	10'-12'	4,7,7,9			
	15'-17'	8,10,14,20			
	20'-22'	2,9,12,21			
					--END OF BORING--

0000016

## DISSEMINATION AND CONNECTION LOG OF C. TORRES COMPANY

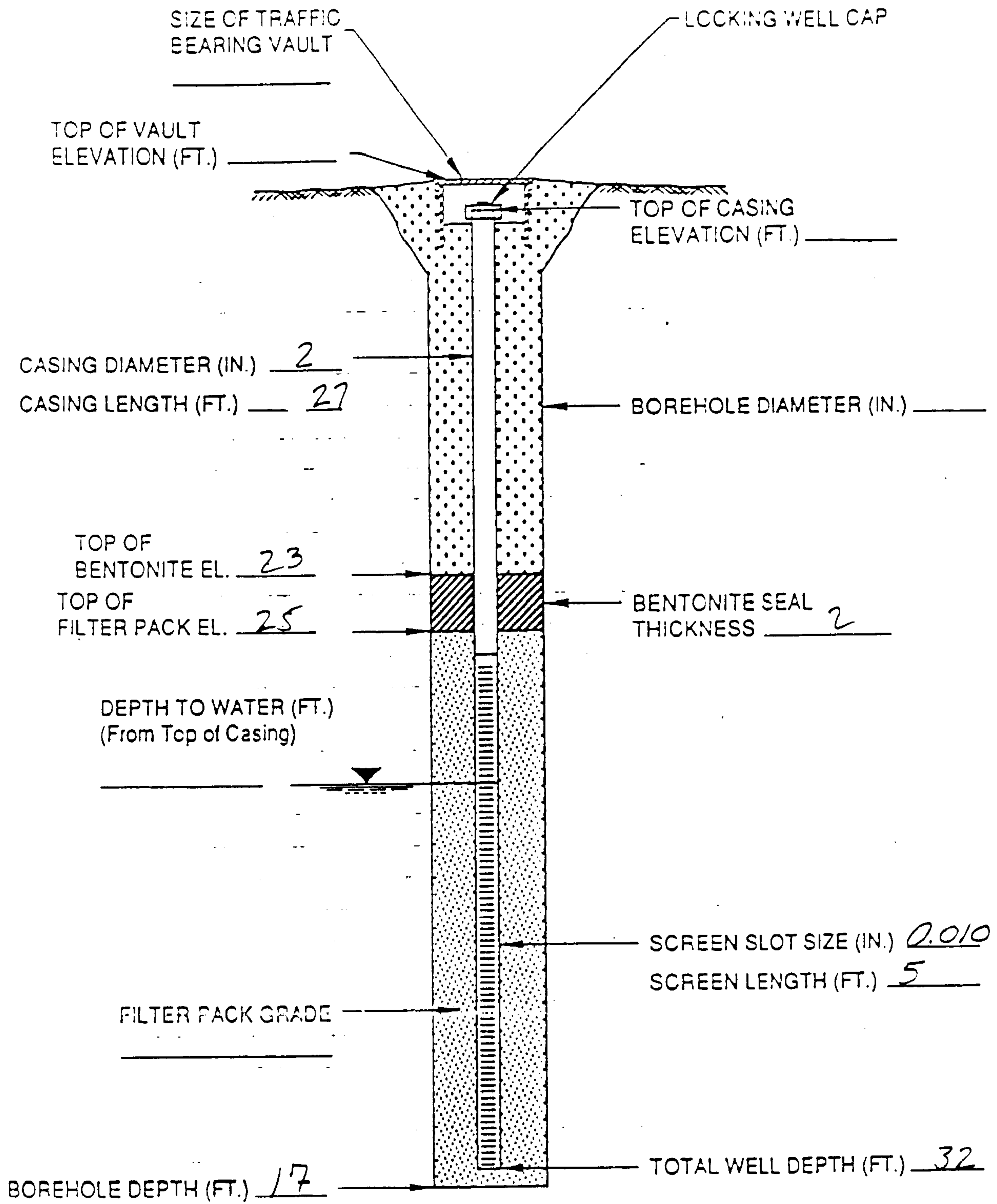
[illegible]

LOGGED by

0000017



SITE NAME: NADAP PASSAGIA OF 1504 JOB NO. \_\_\_\_\_ WELL NO. 1111



COMMENTS: \_\_\_\_\_

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# DRILLING AND COMPLETION LOG

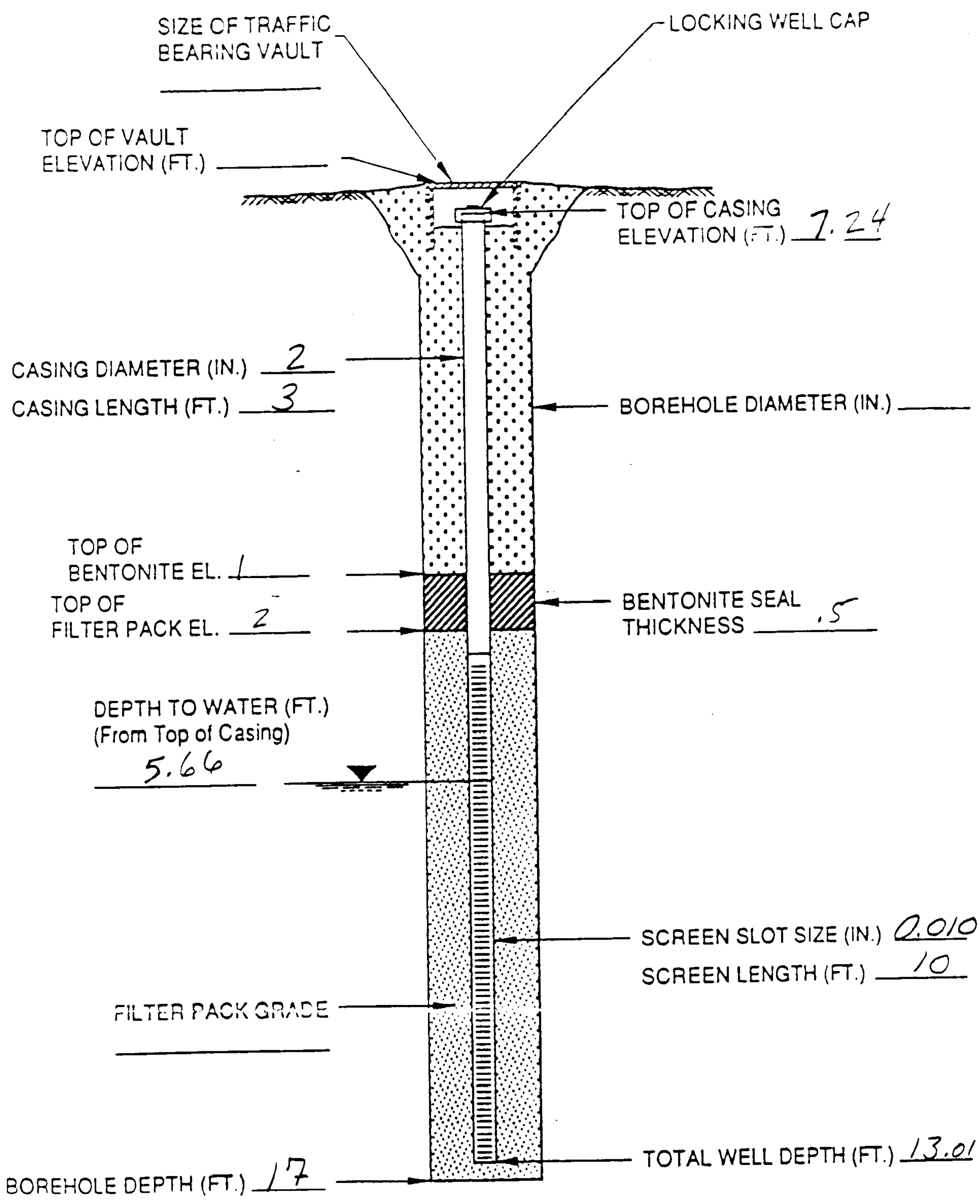
## E.C. JORDAN COMPANY

BORING/WELL #: <u>581 / MW-1</u>					DRILLING METHOD: <u>HSA</u>	
LOCATION: <u>NADEP Pensacola SF 6045</u>					TOTAL DEPTH: <u>17'</u>	
COMPLETION DATE: _____					DRILLER: <u>Groundwater Protection Co.</u>	
DEPTH	BLOWS (per 6")	RECOVERY (1" / 2")	OVA (ppm)	G.C. (Total VOC) (ppm)	DESCRIPTION	
0-4		—	0		CLAYEY SAND: reddish-brown, silty,	
4-6	2 2/5/4	12/24			CLAYEY SAND: reddish-brown, silty to sandy-clayey, very low permeability some petroleum odor	
10-12	10/14/17/24	18/24			SAND: brownish-grey, very fine to fine grained, wet, some reddish-brown CLAYEY SAND AT ~10.5-10.7 feet	
15-17	6/12/21/25	24/24			SAND: very light grey-brown, very fine to fine grained, wet	
					TD	

LOGGED by \_\_\_\_\_

0000013





COMMENTS: \_\_\_\_\_

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DRILLING AND COMPLETION LOG  
E.C. JORDAN COMPANY

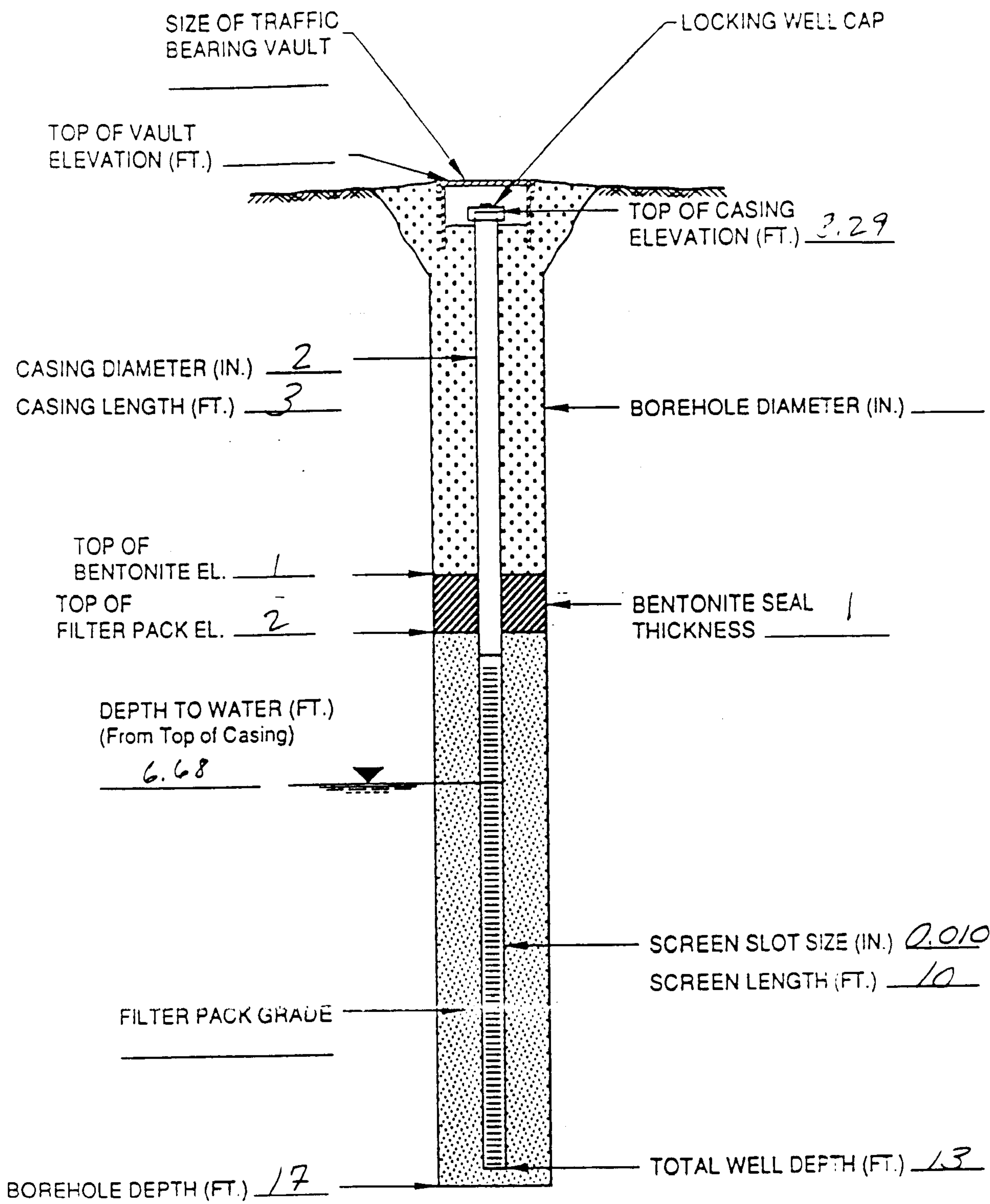
[illegible]

**LOGGED by**

0000013



SITE NAME: NADEP Pensacola SF 6C43 JOB NO. \_\_\_\_\_ WELL 111WC



COMMENTS: \_\_\_\_\_

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DRILLING AND COMPLETION LOG  
E.C. JORDAN COMPANY

[illegible]

**LOGGED by**

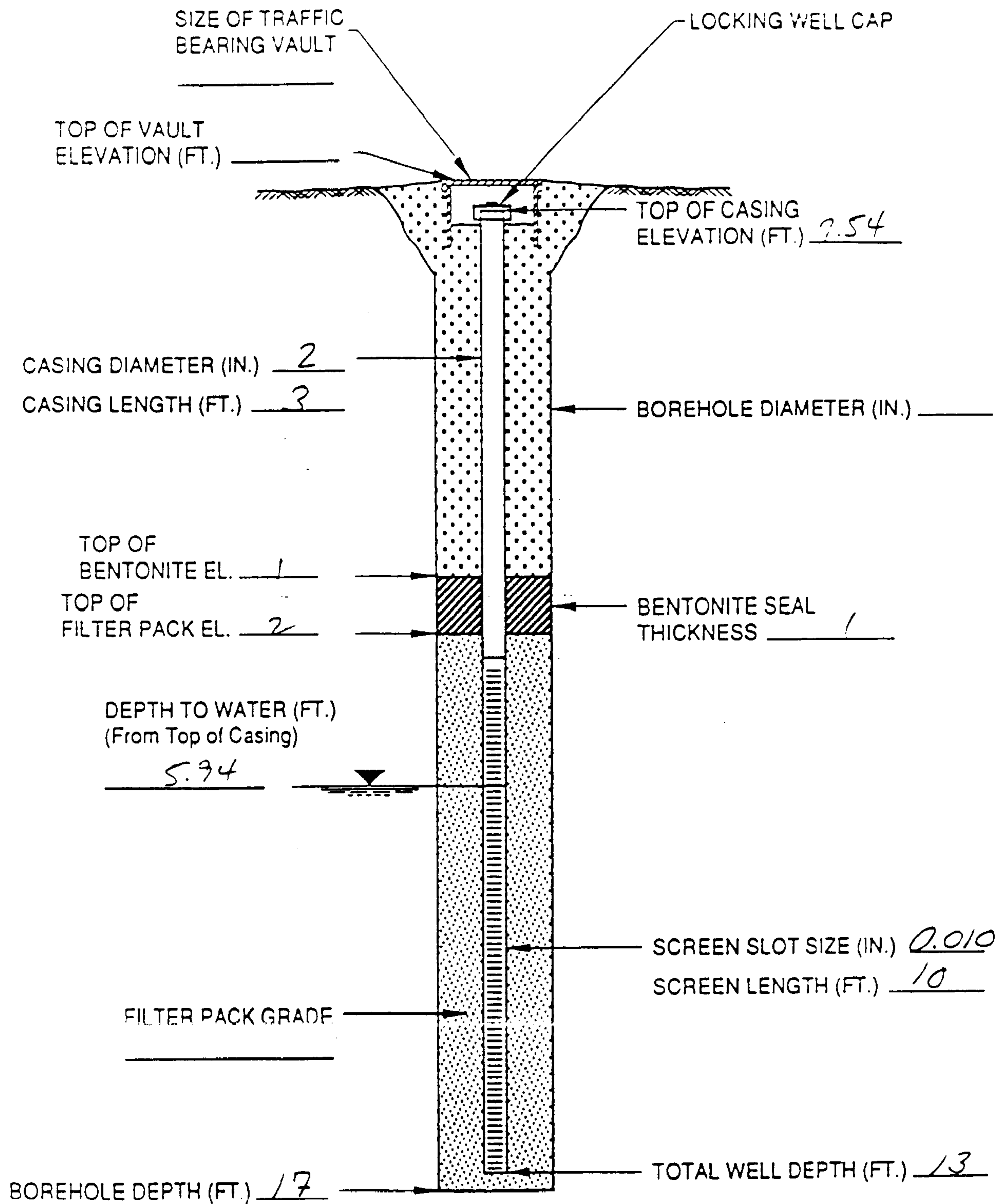
0000020



SITE NAME: NADUP KESAGGIA ST 6510

JUD NO. \_\_\_\_\_

11111111. 11111111



COMMENTS: \_\_\_\_\_

# DRILLING AND COMPLETION LOG

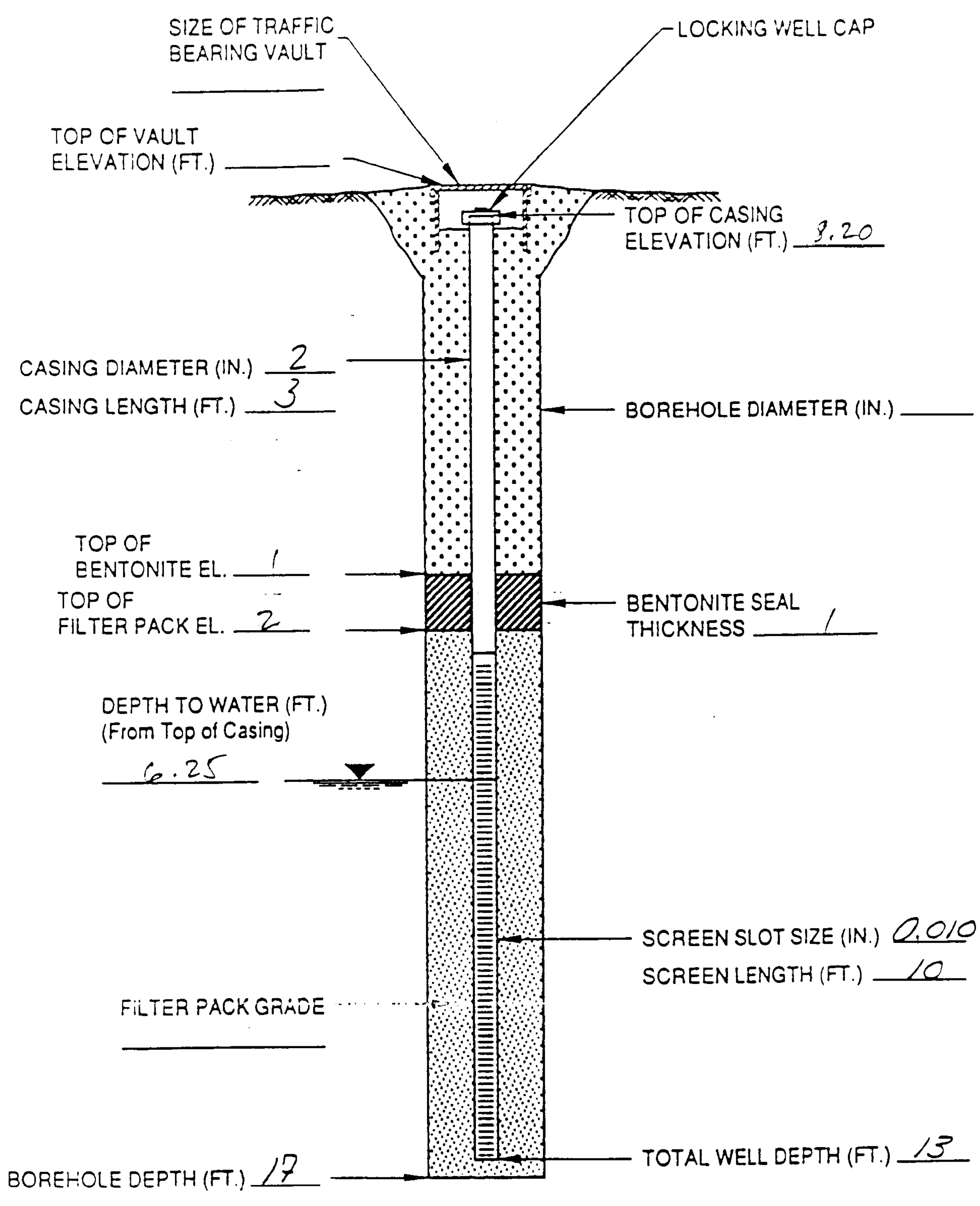
## E.C. JORDAN COMPANY

BORING/WELL #:					DRILLING METHOD:
LOCATION:					TOTAL DEPTH:
COMPLETION DATE:					DRILLER:
DEPTH	BLOWS (per 6")	RECOVERY (# / 2119)	OVA (ppm)	G.C. Total VOA (ppb)	DESCRIPTION
0-0.3					ASPHALT
0.3-2			0		CLAYEY SAND: Reddish brown (mixed w/ asphalt and brick) to yellow-b
2-4			0		SAND: yellow-brown, very fine/silt/ some clay, mixed with brick FRAGMENTS
4-6	16/50/-	6/24	-		SAND: A/A
10-12	16/10/16/21	14/24	-		SAND: 10 to 11 feet, A/A SAND: 11 to 12 feet, white, very fine fine grained, wet, petroleum co
15-17	6/7/16/22	24/24	-		SAND: light brownish-grey, very fine fine grained, slight petroleum odor
					TD OF MW IS 13'

**LOGGED by**

0000021





COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# DRILLING AND COMPLETION LOG

## E.C. JORDAN COMPANY

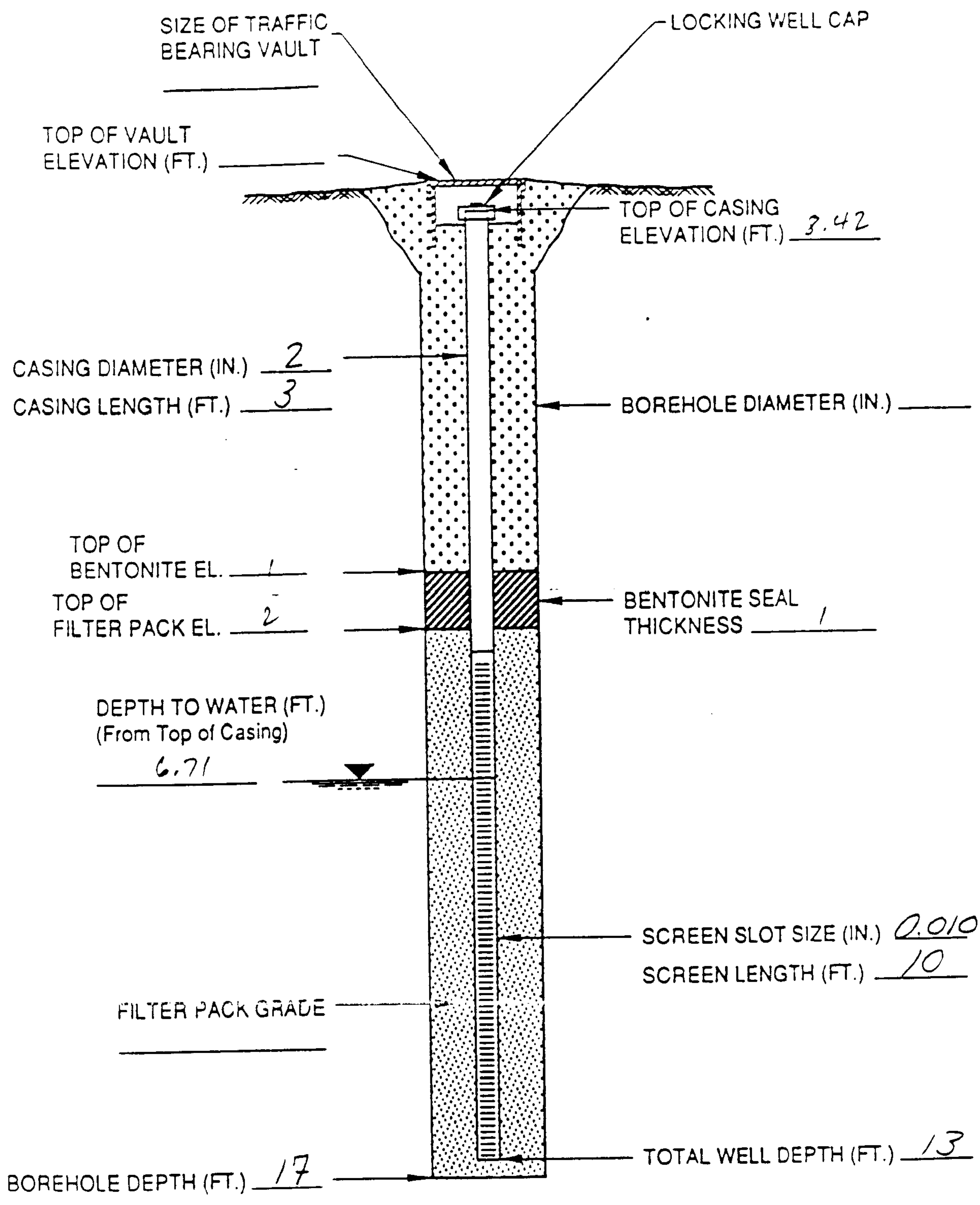
[illegible]

LOGGED by \_\_\_\_\_

0000021



SITE NAME: NADEP Pensacola - 6640 JOB NO. \_\_\_\_\_ WELL NO. 111W3



COMMENTS: \_\_\_\_\_

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\_\_\_\_\_

# DRILLING AND COMPLETION LOG

## E.C. JORDAN COMPANY

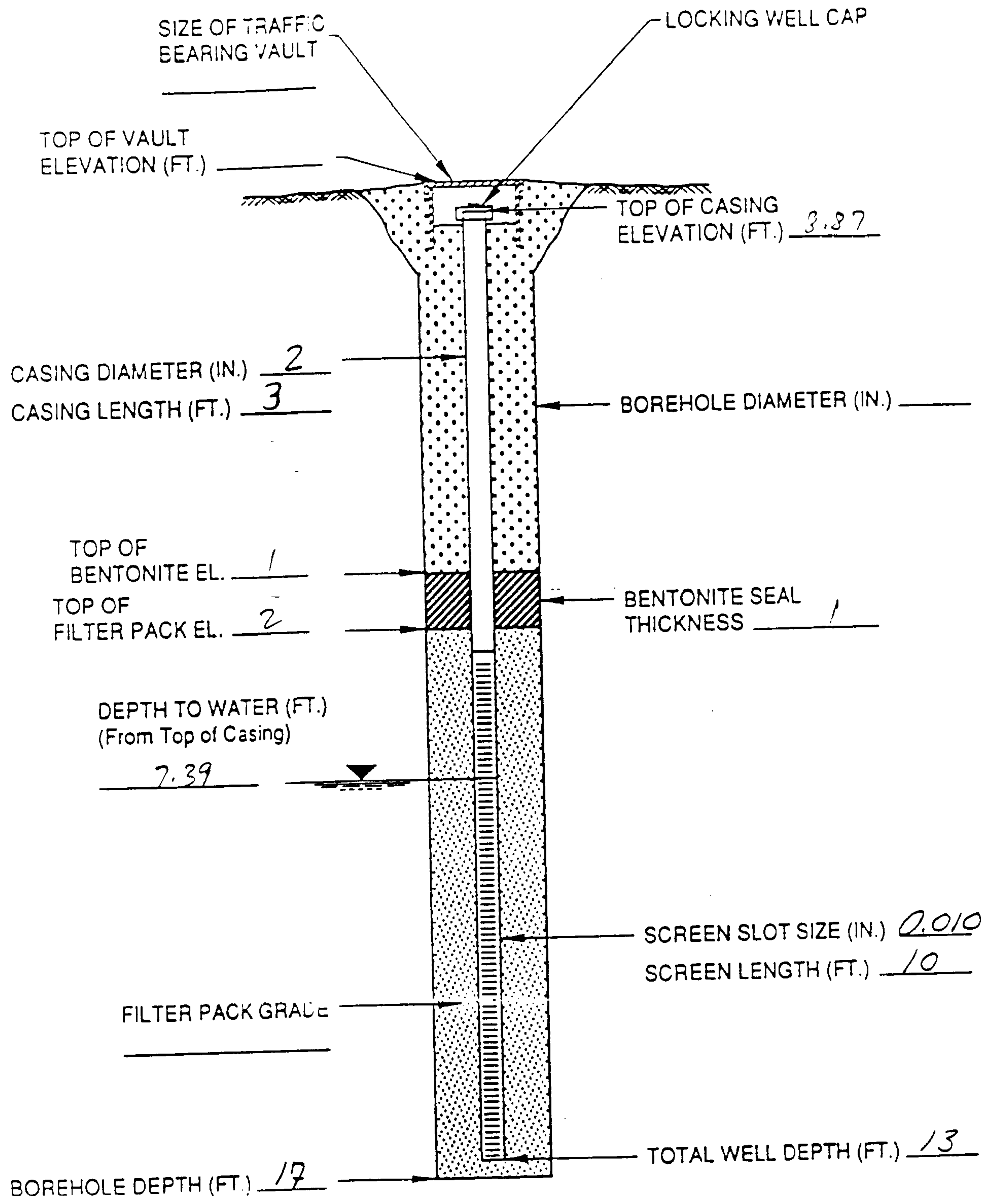
[illegible]

LOGGED by \_\_\_\_\_

0000023



SITE NAME: NADEP Re-ACCIA ST 10040 JOB NO. \_\_\_\_\_ WELL NO. 111200



COMMENTS: \_\_\_\_\_

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# DRILLING AND COMPLETION LOG

## E.C. JORDAN COMPANY

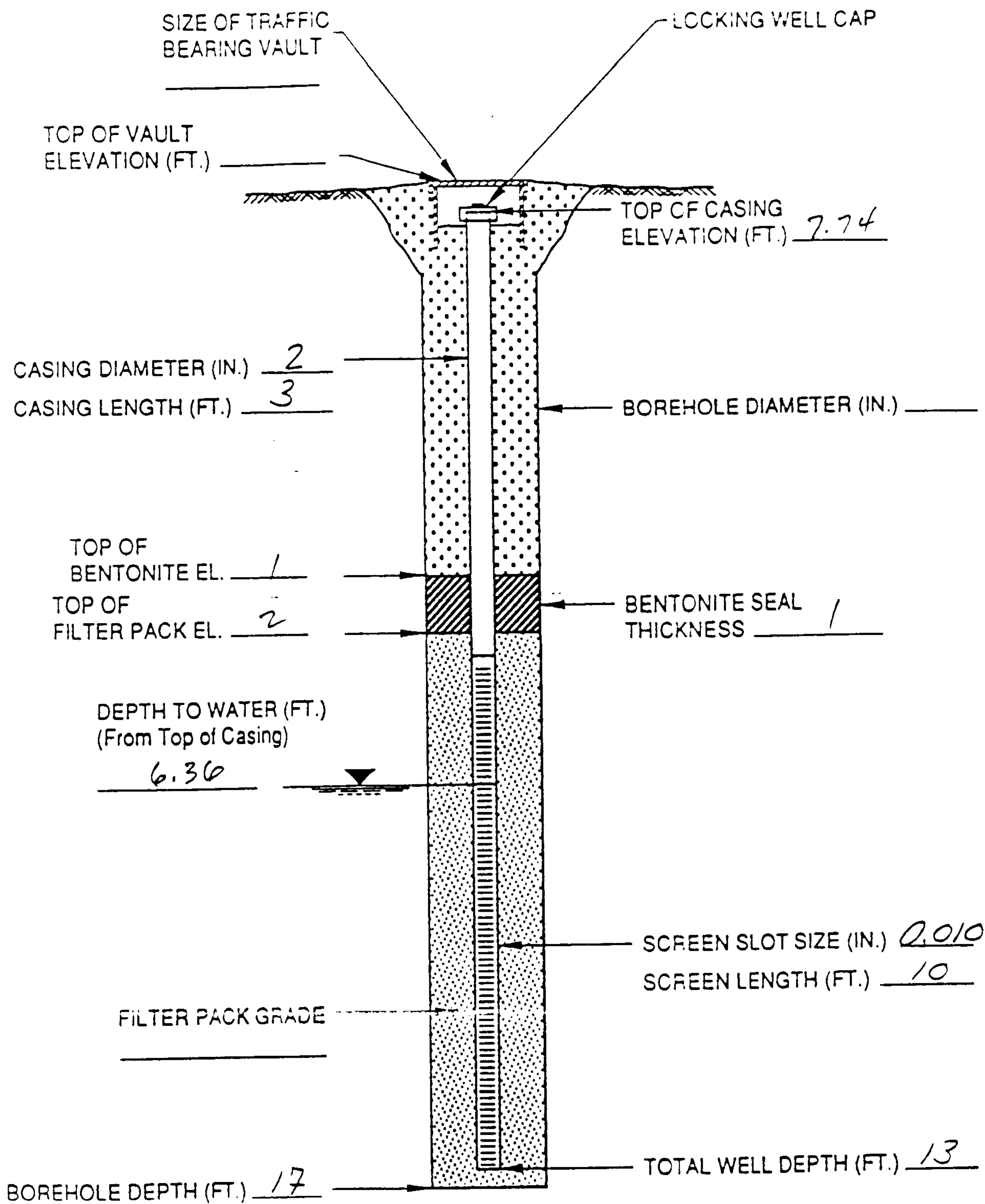
Boring/Well #: <u># 5137 / MW 7</u>					Drilling Method: <u>HSA</u>	
Location: <u>NADEP Pensacola SF 6045</u>					Total Depth: <u>17' / 13'</u>	
Completion Date: <u>1-23-92</u>					Driller: <u>Groundwater Protection (CA)</u>	
Depth	Blows (per 6")	Recovery (1 / 2")	OVA (ppm)	G.C. Total VOA (ppm)	Description	
C-5"		Posthole	N/A	N/A	SOIL; black, GRASS	
5"-2"		Posthole	0		CLAYEY SAND: Fine to medium GRA - very much black silt, debris AND cobbles	
4-6	2/3/4/3	12/24	4	N/A	SAND: dark brown to brown-grey, very fine to fine grained, some debris, NO odor	
10-12	6/8/8/12	19/24	N/A		SAND: Light grey to reddish tan, fine medium grained, some clay, some silt, SATURATED, NO odor	
15-17	10/11/11/11	24/24	N/A		SAND: Light grey to reddish tan, fine to medium grained, SATURATED, NO odor	
					TD of MW is 13'	

LOGGED by

0000024



SITE NAME: NADEP 1021-11A-01-1270 JOB NO. \_\_\_\_\_ WELL NO. 11111



COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# DRILLING AND COMPLETION LOG

## E.C. JORDAN COMPANY

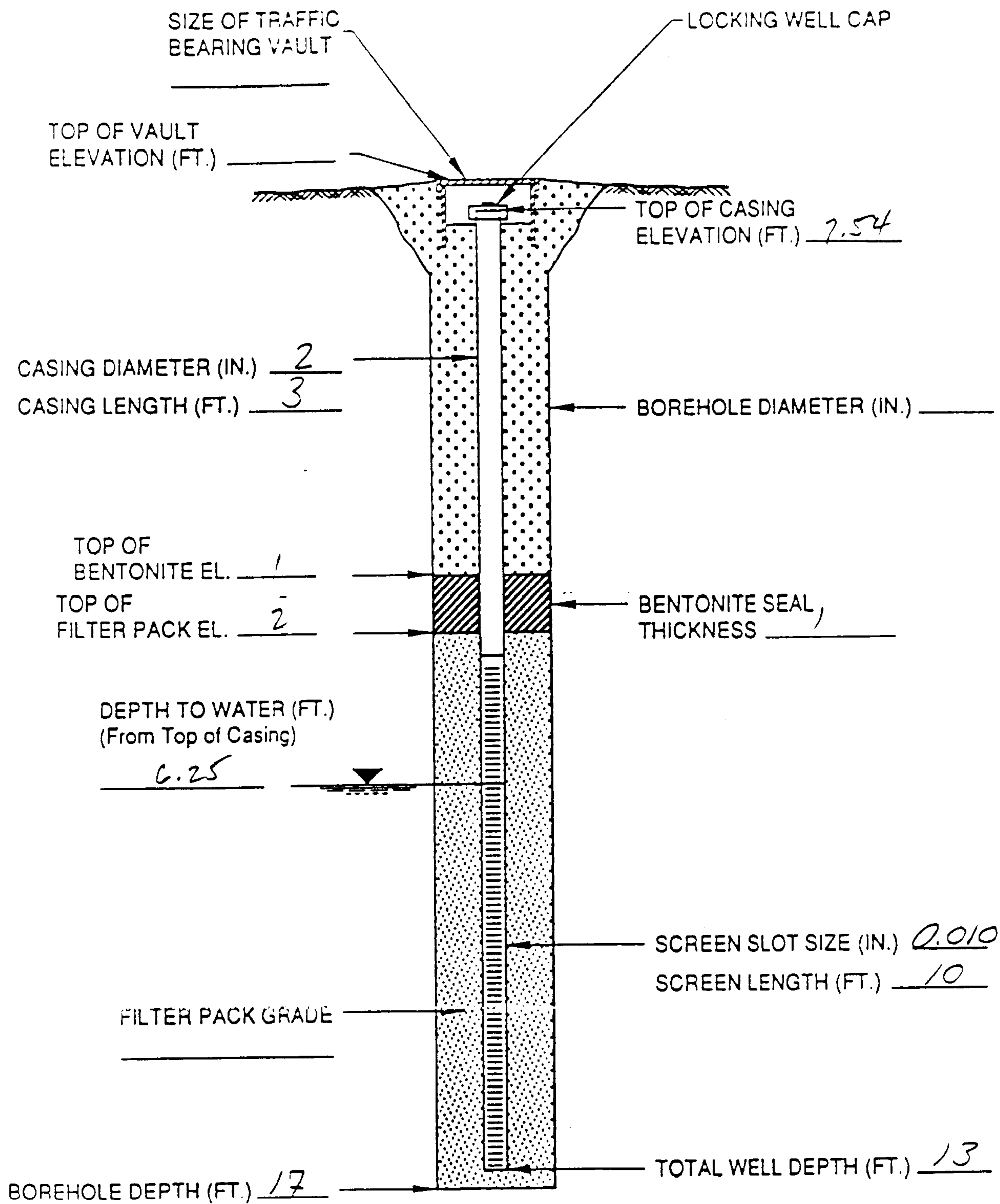
[illegible]

**LOGGED by**

0000025



SITE NAME: NADEP Pensacola SF 6045 JOB NO. \_\_\_\_\_ WELL NO. 111W6



COMMENTS: \_\_\_\_\_

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# DRILLING AND COMPLETION LOG

## E.C. JORDAN COMPANY

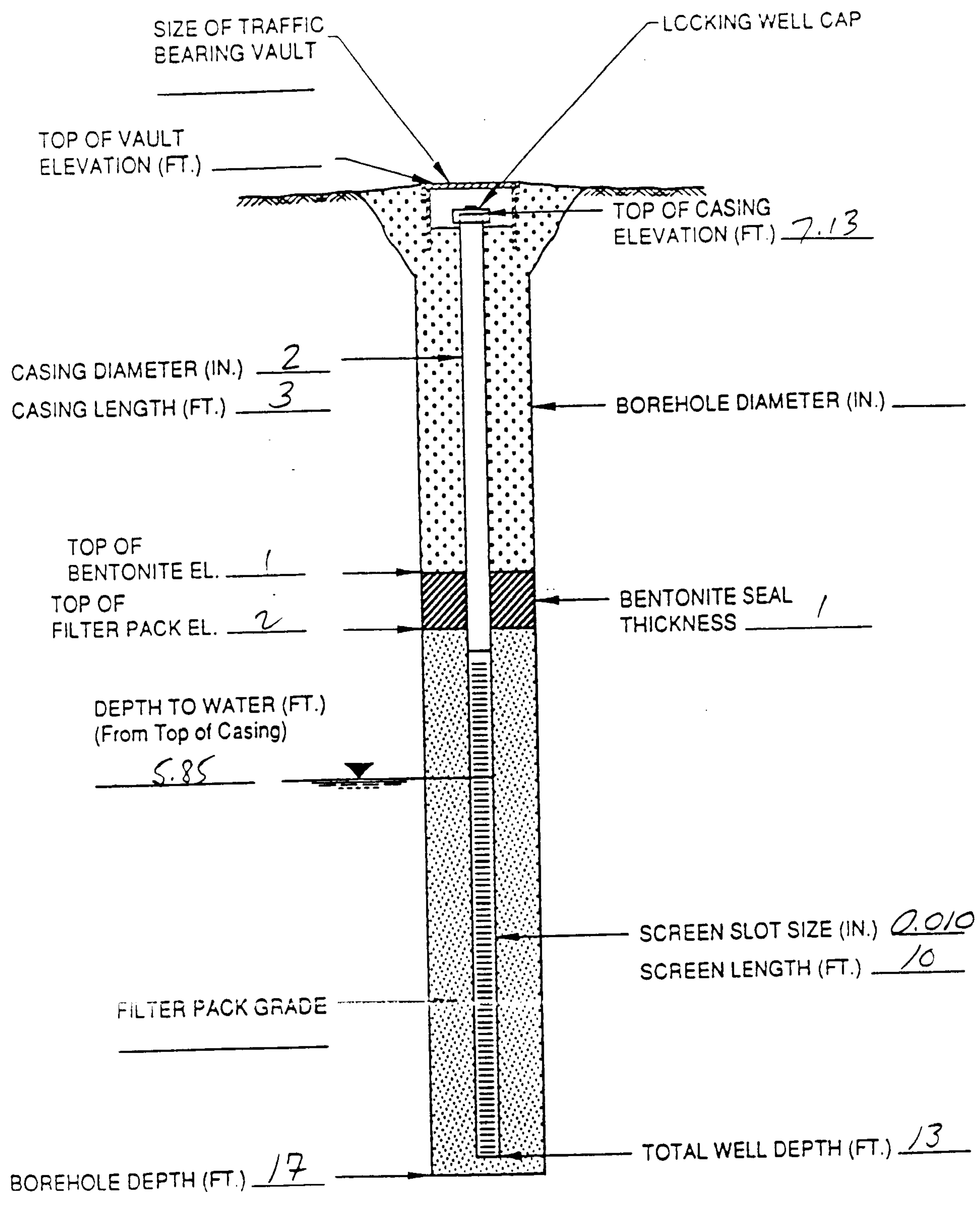
[illegible]

**LOGGED by**

0000026



SITE NAME: ADEP PENSACOLA ST 6040 JOB NO. \_\_\_\_\_ WELL NO. 1111



COMMENTS: \_\_\_\_\_

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# DRILLING AND COMPLETION LOG

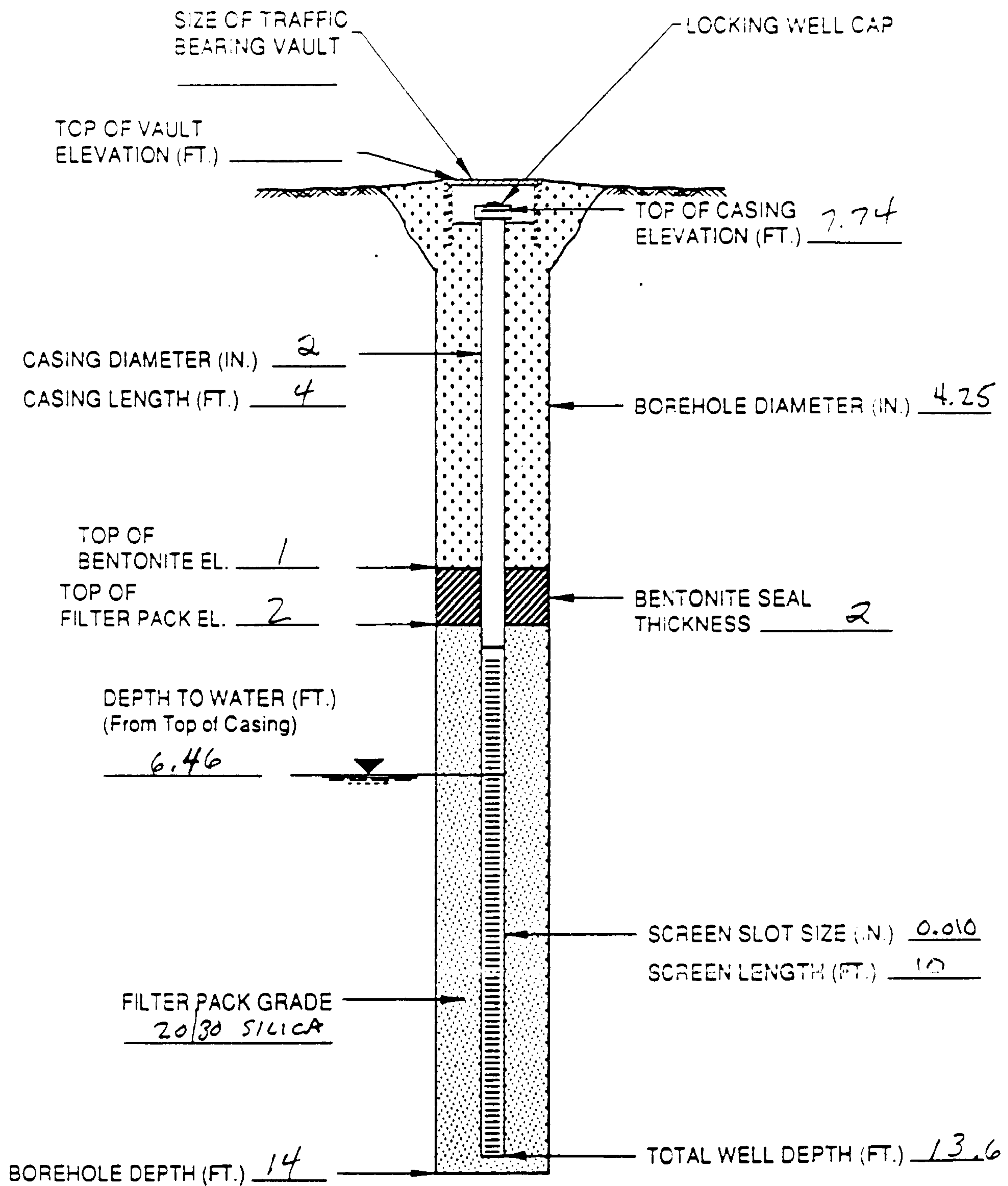
## E.C. JORDAN COMPANY

[illegible]

0000027



SITE NAME: NAEP 6045 JOB NO.        WELL NO. MW-10



COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# DRILLING AND COMPLETION LOG

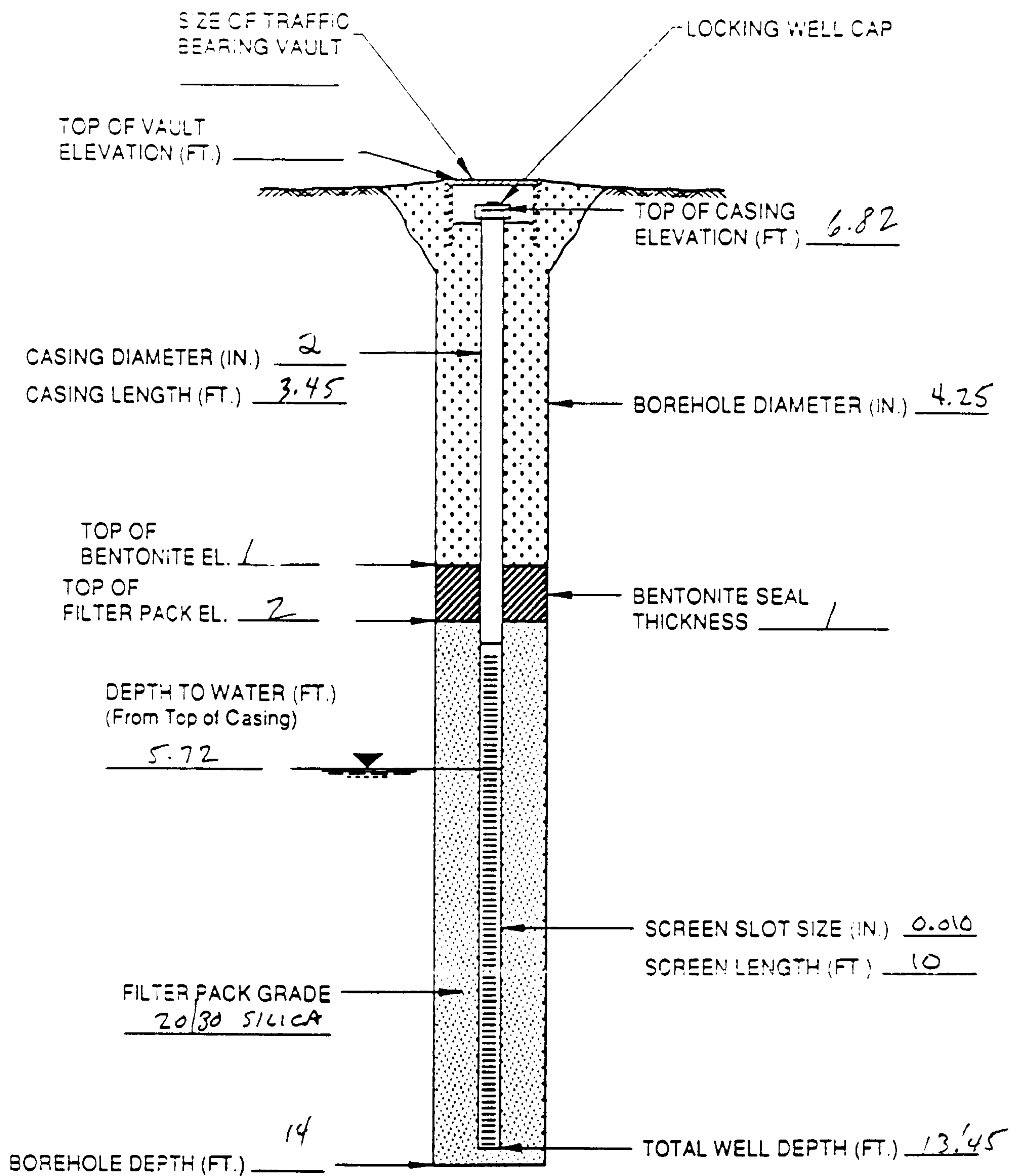
## E.C. JORDAN COMPANY

[illegible]

0000028



SITE NAME: LAKEF 6045 JOB NO.      WELL NO.     



COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Groundwater Sampling Results February 26, 1992 Sampling Event															
Contamination Assessment Report Site 604S, Naval Aviation Depot Pensacola, Florida															
Compound	Regulatory/ guidance concentration	MW1	MW1 dupli- cate	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9	MW10	MW10 dupli- cate	MW11	MW12D
1,1-Dichloroethane	2,400	ND	ND	ND	ND	ND	39	3	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	4.2	1,500	1,400	100	ND	ND	ND	13	130	64	77	1,200	150	ND	1
Methylene chloride	5	310	ND	ND	ND	ND	ND	7	ND	5	ND	ND	3	ND	ND
Tetrachloroethene	3	280	ND	120	9,100	ND	ND	14	11	160	ND	ND	11	ND	4
1,1,1-Trichloroethane	200	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3	250	ND	37	ND	ND	ND	19	35	63	ND	ND	34	ND	ND
Vinyl chloride	1	1,300	570	8	ND	1,700	6	ND	27	ND	350	ND	31	500	ND
Ethyl benzene		ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes		52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOA	50	52	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		20	ND	ND	ND	79	94	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene		10	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		11	ND	ND	ND	35	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total naphthalenes	100	41	ND	ND	ND	143	94	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NL	ND	ND	ND	ND	ND	ND	ND	ND	58	ND	ND	ND	ND	ND
TRPH	5	6	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	10	ND	ND	58	210	ND	ND	10	ND	ND	ND	ND	ND	ND	ND
Lead	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND
Concentrations in ppb, except TRPH, which is in ppm. Equipment blank was ND for compounds. Trip blank was ND for compounds. Laboratory blank contained 5 ppb methylene chloride.															
Notes: ND = not detected. NL = not listed. TRPH = total recoverable petroleum hydrocarbons.															

0000020



**Groundwater Sampling Results**  
**February 26, 1992 Sampling Event**

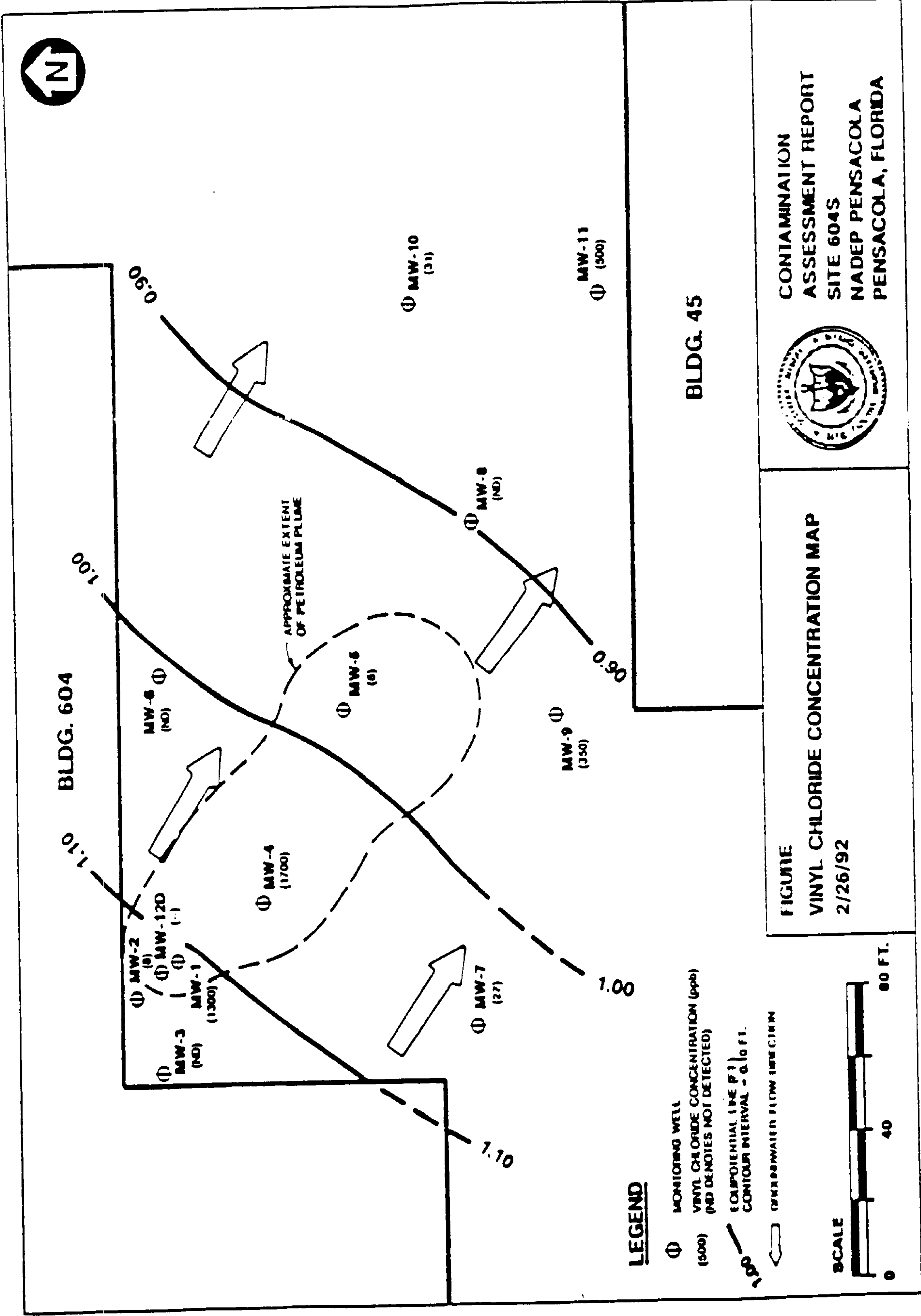
Contamination Assessment Report  
Site 604S, Naval Aviation Depot  
Pensacola, Florida

Tentatively identified compounds (estimated values)	MW1	MW4	MW5	MW8	MW9	MW12D
Unknown alkane	1,300	ND	ND	ND	ND	11
1-ethyl-2-methyl benzene	610	350	ND	ND	ND	11
1-ethyl-3-methyl benzene	ND	1,200	ND	ND	ND	ND
1-ethyl-4-methyl benzene	1,000	290	ND	ND	ND	ND
1-ethyl-2,4-diethyl benzene	67	ND	ND	ND	ND	ND
1-ethyl-3,5-dimethyl benzene	42	ND	29	ND	ND	7
2-ethyl-1,4-dimethyl benzene	ND	86	30	ND	6	7
4-ethyl-1,2-dimethyl benzene	ND	94	ND	ND	ND	ND
1,2-diethyl benzene	ND	43	29	ND	8	ND
1,3-diethyl benzene	ND	50	26	ND	5	ND
1-methylethyl benzene	50	32	57	ND	5	ND
1-methyl-2-(1-methylethyl) benzene	640	ND	45	ND	ND	11
1-methyl-3-(1-methylethyl) benzene	810	ND	22	ND	ND	18
1-methyl-4-(1-methylethyl) benzene	550	ND	ND	ND	ND	ND
Methyl (1-methylethyl) benzene	1100	89	ND	ND	ND	44
1,2,3-trimethyl benzene	110	460	ND	ND	ND	ND
1,2,4-trimethyl benzene	920	ND	ND	ND	ND	9
1,3,5-trimethyl benzene	ND	360	ND	ND	7	10
1,2,3,4-tetramethyl benzene	ND	ND	51	ND	ND	ND
1-methylpropyl benzene	ND	ND	23	ND	ND	ND
2,4-dimethyl-1-(1-methylethyl) benzene	ND	ND	ND	ND	ND	5
1-methyl-3-propyl benzene	590	ND	ND	ND	ND	14
Propyl benzene	ND	160	66	ND	ND	ND
(4-methylpentyl) cyclohexane	950	ND	ND	ND	ND	ND
3-ethyl-5-methyl heptane	76	ND	ND	ND	ND	ND
2,5-dimethyl octane	48	ND	ND	ND	ND	ND
Decane	120	ND	ND	ND	ND	7
2-methyl decane	56	ND	ND	ND	ND	ND
4-methyl decane	62	ND	ND	ND	ND	ND
3-ethenyl-1,2-dimethyl-1,4-cyclohexadiene	ND	88	ND	ND	ND	ND
Sulfur	ND	68	ND	ND	10	ND
1,1'-(1-ethenyl-1,3-propanediyl) bis-benzene	ND	ND	34	ND	ND	ND
2,3-dihydro-1H-indene	ND	ND	16	ND	ND	ND
Naugard 431	ND	ND	35	ND	ND	ND
1,2,3,4-tetrahydro-naphthalene	ND	ND	13	ND	ND	ND
Octacosane	ND	ND	44	ND	ND	ND
Eicosane	ND	ND	43	ND	ND	ND
1,2-dimethyl naphthalene	ND	ND	ND	30	ND	ND
1,5-dimethyl naphthalene	ND	ND	ND	11	ND	ND
2-ethyl naphthalene	ND	ND	ND	11	ND	ND
1-chloro-4-tert-butyl-benzene	ND	ND	ND	18	ND	ND
Dibenzothiophene	ND	ND	ND	13	ND	ND
(2,4-dimethylphenyl)-2,5-dimethyl benzoic acid	ND	ND	ND	ND	ND	8
Alpha-pinene	ND	ND	ND	ND	ND	14
D-fenchyl alcohol	ND	ND	ND	ND	ND	39
Camphor	ND	ND	ND	ND	ND	12
1-borneol	ND	ND	ND	ND	ND	10
Unknown	ND	ND	ND	ND	ND	30

Concentrations in ppb.

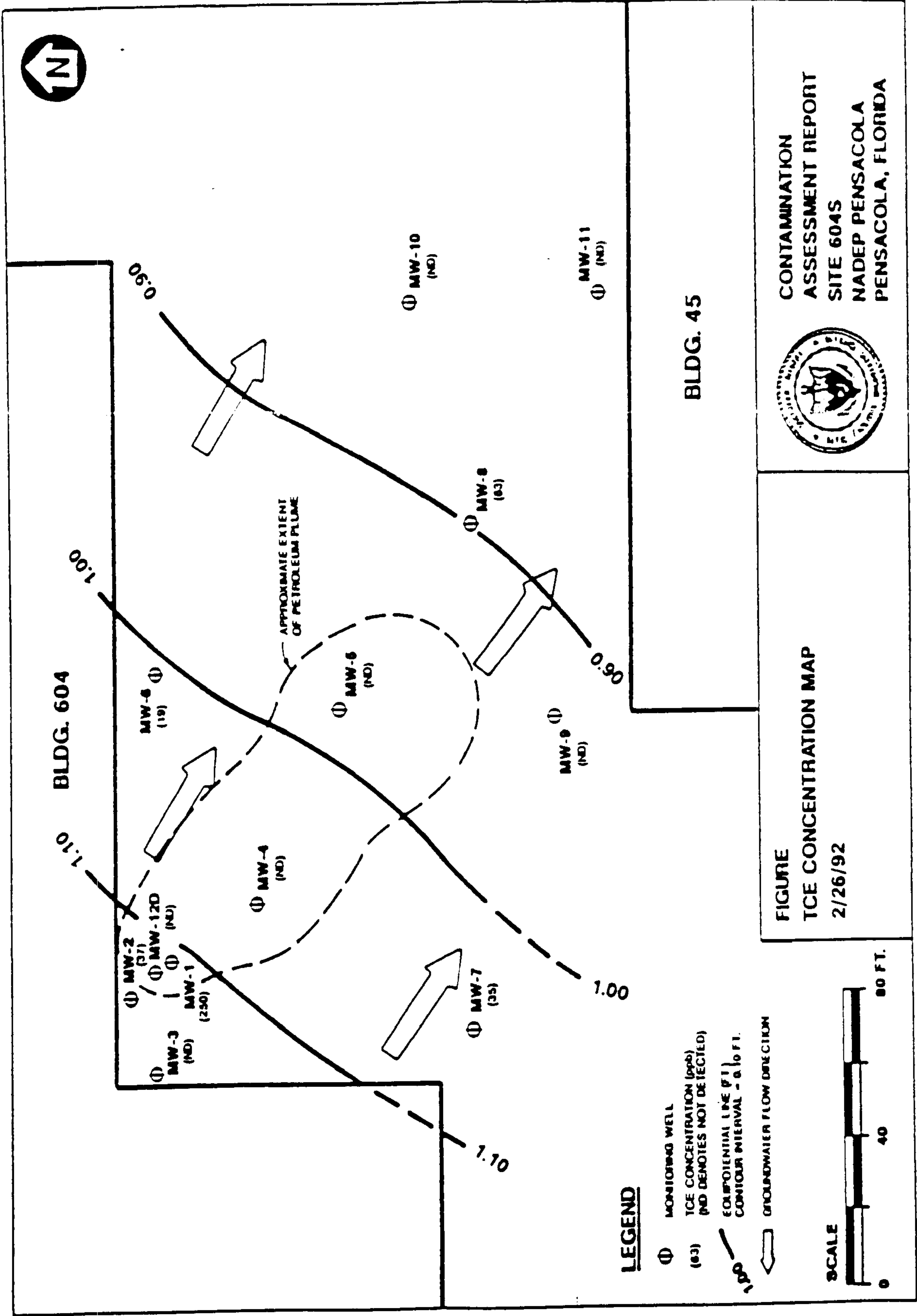
Note: ND = not detected.

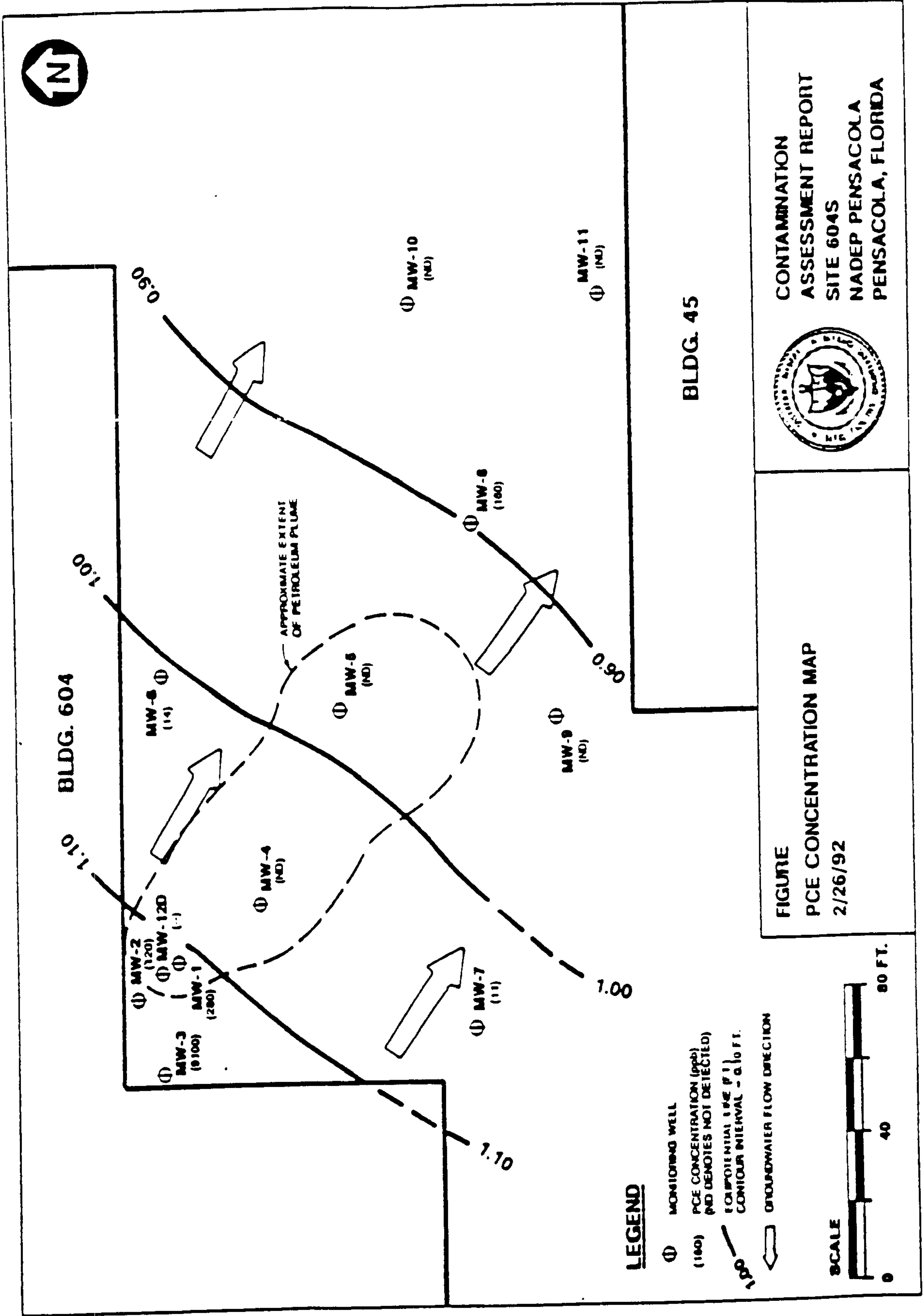
0000030



0000031

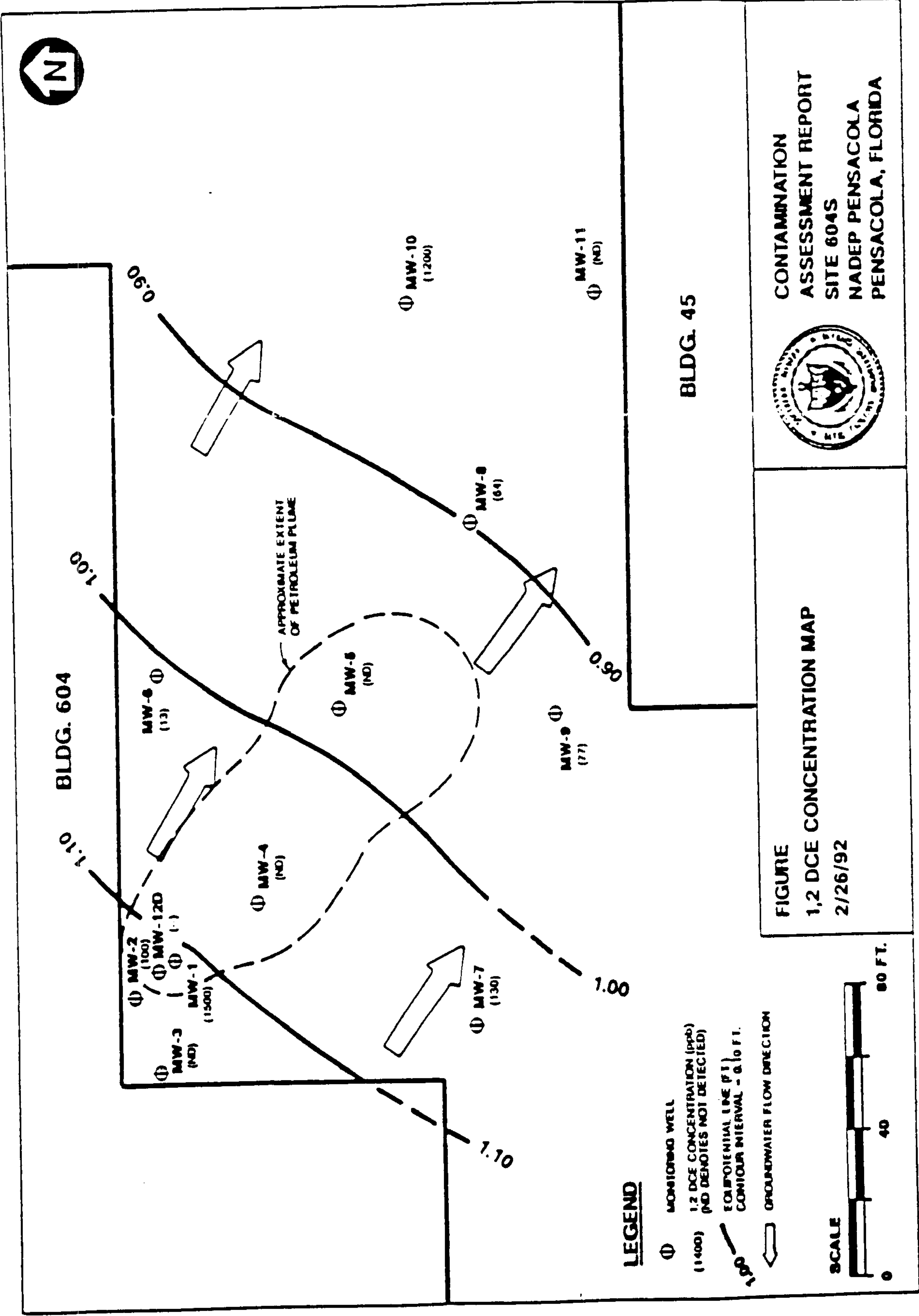






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0000034





## **Appendix D**

### **Soil-Gas Survey Results Target Environmental Services**

## **Appendix D**

**Note:** The complete Target Environmental Report includes data from other Remedial Investigations at NAS Pensacola. This appendix includes an excerpt of the only the data relevant to Site 38.



**SITE SCREENING DATA**  
**PENSACOLA NAVAL AIR STATION**  
**PENSACOLA, FLORIDA**

**PREPARED FOR**  
**ENSAFE/ALLEN & HOSHALL**  
**5720 SUMMER TREES DRIVE, #8**  
**MEMPHIS, TENNESSEE**

**PREPARED BY**  
**TARGET ENVIRONMENTAL SERVICES, INC.**  
**9180 RUMSEY ROAD**  
**COLUMBIA, MARYLAND 21045**  
**(410) 992-6622**

**SEPTEMBER 1993**

### **Site 38**

A total of 81 soil gas samples and 11 ground water samples were collected at Site 38. The soil gas sampling depths ranged from 2 to 4 feet due to the presence of shallow ground water. As directed by **E/A&H**, the ground water samples were collected at the soil gas sample locations which revealed elevated levels of volatile hydrocarbons. The ground water samples were collected at depths of 5 to 8 feet. The sampling depths are provided in Table 1. The sampling locations for Site 38 are shown in Figure 2. The field control samples collected during soil gas sampling activities at this site were labelled as Samples B600 through B609. The equipment rinseate blanks collected during ground water sampling activities at this site were labelled as WB600 and WB601.

### **Building 45 Site**

Under the direction of **E/A&H**, a total of 5 ground water samples were collected from the Building 45 site. All of the samples were collected at a depth of 6 feet. The equipment rinseate blanks collected during ground water sampling activities at this site were labelled as WB45-B1 and WB45-B2. The sampling locations for the Building 45 site were recorded by **E/A&H**'s on-site representative. All of these ground water samples were sent to **TARGET**'s "home" laboratory in Columbia, Maryland for GC/FID headspace analysis for vinyl chloride. A monitoring well sample, collected by **E/A&H** (Sample 38MW09), was sent to **Maryland Spectral Services, Inc.** in Columbia, Maryland for GC/MS analysis for vinyl chloride via EPA Method 8240.



### Sampling and Analytical Procedures

To collect the soil gas samples, two sampling procedures were employed. For both methods, the entire sampling system was first purged with ambient air drawn through an organic vapor filter cartridge. In general, deep (>4 foot) samples were collected using a van-mounted hydraulic probe to advance connected 3-foot sections of 1-inch diameter threaded steel casing down to the sampling depth. A Teflon line was inserted into the casing to the bottom of the hole, and threaded through a plug which isolates the bottom-hole sampling chamber from the up-hole annulus. Shallow samples (4 feet or less) were collected manually using a drive rod to produce a 1/2 inch hole. A stainless steel probe was inserted to the full depth of the hole and sealed off from the atmosphere. Where pavement was present, a rotary hammer was employed for penetration prior to using the drive rod.

Following isolation of the sampling zone, a sample of in-situ soil gas was then withdrawn through the probe or line and used to purge atmospheric air from the sampling system. A second sample of soil gas was withdrawn through the probe and encapsulated in an EPA-clean, pre-evacuated glass vial at two atmospheres of pressure (15 psig). The self-sealing vial was detached from the sampling system, packaged, labeled, and stored for laboratory analysis.

Prior to the day's field activities all sampling equipment, slide hammer rods and probes were decontaminated by washing with a solution of Alconox/distilled water and rinsing thoroughly with distilled water. Internal surfaces were flushed dry using pre-purified nitrogen or filtered ambient air, and external surfaces were wiped clean using clean paper towels.

To collect the ground water samples the hydraulic probe was used to advance connected 3 foot sections of 1" diameter threaded steel casing to the sampling depth. Once the steel casing was in place, water was allowed to fill the pipe. A Teflon sampling tube was placed down the

pipe and ground water was collected from just below the water surface. Samples were placed in EPA-clean, amber glass bottles, sealed, labeled and stored on ice pending analysis.

Prior to the day's field activities and after collection of each ground water sample, the steel casing and Teflon sampling tube were decontaminated by washing with Alconox (a biodegradable, laboratory grade detergent), rinsing with distilled water and drying with nitrogen gas or filtered ambient air.

All of the soil gas samples and the headspaces of the ground water and soil samples collected from Sites 11, 30 and 38 were subjected to dual analyses using **TARGET's** on-site laboratory gas chromatograph set-up. One analysis was conducted according to EPA Method 8010 (modified) on a gas chromatograph equipped with an electron capture detector (ECD), and using direct injection. Specific analytes standardized for this analysis were:

- 1,1-dichloroethene (11DCE)
- methylene chloride ( $\text{CH}_2\text{Cl}_2$ )
- trans-1,2-dichloroethene (t12DCE)
- 1,1-dichloroethane (11DCA)
- cis-1,2-dichloroethene (c12DCE)
- chloroform ( $\text{CHCl}_3$ )
- 1,1,1-trichloroethane (111TCA)
- carbon tetrachloride ( $\text{CCl}_4$ )
- trichloroethene (TCE)
- 1,1,2-trichloroethane (112TCA)
- tetrachloroethene (PCE)

The chlorinated hydrocarbons in this suite were chosen because of their common usage in industrial solvents, and/or their degradational relationship to commonly used compounds.

The second analysis was conducted according to EPA Method 8020 (modified) on a gas chromatograph equipped with a flame ionization detector (FID), and using direct injection. The analytes selected for standardization in this analysis were:



benzene  
toluene  
ethylbenzene  
meta- and para- xylene  
ortho- xylene

These compounds were chosen because of their utility in evaluating the presence of fuel products, or petroleum based solvents.

The 5 ground water samples from the Building 45 site were analyzed in TARGET's "home" laboratory according to EPA Method 8020 (modified) on a GC/FID using a modified headspace technique. The specific analyte standardized for this analysis was vinyl chloride.

The analytical equipment was calibrated using a 3-point instrument-response curve and injection of known concentrations of the target analytes. Retention times of the standards were used to identify the peaks in the chromatograms of the field samples, and their response factors were used to calculate the analyte concentrations. The ground water samples were prepared for analysis by pouring 15 ml of sample into a 30 ml EPA clean vial and sealing with a teflon-faced butyl rubber septum. The soil samples were prepared for analysis by placing a portion of each composite sample in an EPA-clean glass vial and sealing with a teflon-faced butyl rubber septum. Each vial was heated for 10 minutes in a 60°C heating block to volatilize hydrocarbons from the water or soil. The headspace of the sample was then directly injected into a gas chromatograph.

Total FID Volatiles values were generated by summing the areas of all integrated chromatogram peaks and calculated using the instrument response factor for toluene. Injection peaks, which also contain the light hydrocarbon methane, were excluded to avoid the skewing of Total FID Volatiles values due to injection disturbances and biogenic methane. For samples with low hydrocarbon concentrations, the calculated Total FID Volatiles concentration is occasionally lower than the sum of the individual analytes. This is because the response factor



used for the Total FID Volatiles calculation is a constant, whereas the individual analyte response factors are compound specific. It is important to understand that the Total FID Volatiles levels reported are relative, not absolute, values.

The tabulated results of the laboratory analyses of the soil gas samples and the headspaces of the ground water and soil samples are reported in micrograms per liter ( $\mu\text{g/l}$ ) in Tables 1 and 2. Although "micrograms per liter" is equivalent to "parts per billion (v/v)" in water analyses, they are not equivalent in gas analyses due to the difference in the mass of equal volumes of water and gas matrices. The xylenes concentrations reported in Table 1 are the sum of the m- and p-xylene and the o-xylene concentrations for each sample. 1,1-Dichloroethene (1,1-DCE) and 1,1,2-trichlorotrifluoroethane (TCTFA) co-elute using the electron capture detector (ECD) and **TARGET's** analytical conditions and are listed in Table 2 as a co-eluting pair. The concentrations for 1,1-DCE/TCTFA were calculated using the response factor for 1,1-DCE. Because the ECD response to TCTFA is much larger than its response to 1,1-DCE, the same size peak represents only about 5% TCTFA. In other words, 100  $\mu\text{g/l}$  of 1,1-DCE represents approximately 5  $\mu\text{g/l}$  of TCTFA. The concentrations of 1,1-DCE/TCTFA that are shown in bold italics may be higher than reported due to saturation of the detector. The analytical results of the GC/FID vinyl chloride analysis for the 5 ground water samples collected at the Building 45 site are reported in Table 3.

Monitoring well Sample 38MW09 was analyzed for vinyl chloride on a gas chromatograph equipped with a mass spectrometer (GC/MS) according to EPA Method 8240 and using a purge and trap. The results of this analysis (including QA/QC) are included in Appendix A as received from **Maryland Spectral Services**.

## Quality Assurance/Quality Control (QA/QC)

### **Field QA/QC Samples**

**Field control samples** were collected at the beginning and end of each day's field activities and after every twentieth soil gas sample. These QA/QC samples were obtained by filtering ambient air through a dust and organic vapor filter cartridge or by inserting the probe tip into a tube flushed with a 20 psi flow of pre-purified nitrogen and encapsulating as described above. The laboratory results of the analyses of these samples are reported in Tables 1 and 2.

**Equipment rinseate blanks** were collected at the beginning and end of each day's ground water sampling activities. These QA/QC samples were obtained by pouring bottled distilled water through the Teflon sampling tube and into a glass vial as described above. The laboratory results of the analyses of these samples are reported in Tables 1 through 3.

### **Laboratory QA/QC Samples**

To document analytical repeatability, a duplicate analysis was performed on every tenth field sample. Laboratory blanks of nitrogen gas were also analyzed after every tenth field sample. The results of these analyses are reported in Tables 1 through 3.

TABLE 2

ANALYTE CONCENTRATIONS VIA GC/ECD (µg/l)

SAMPLE	11DCE/ TCTFA	CH2Cl2	112DCE	11DCA	c12DCE	CHCl3	111TCA	CCl4	TCE	112TCA	PCE
REPORTING LIMIT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SITE 38 - SOIL GAS (CONT.)											
SG671	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<1.0	1.7
SG672	10	<1.0	<1.0	1.1	<1.0	<1.0	7.7	<1.0	1.1	<1.0	1.1
SG673	87	<1.0	<1.0	9.8	<1.0	1.0	129	<1.0	7.6	<1.0	4.5
SG674	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	4.7	<1.0	11	<1.0	2.9
SG675	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	4.6	<1.0	1.7
SG676	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	1.9	<1.0	<1.0
SG677	7.4	<1.0	<1.0	<1.0	<1.0	<1.0	6.2	<1.0	<1.0	<1.0	<1.0
SG678	31	1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	<1.0
SG679	271	<1.0	<1.0	91	<1.0	1.5	2,462	<1.0	24	<1.0	366
SG680	166	<1.0	<1.0	8.3	<1.0	<1.0	290	<1.0	18	<1.0	21
SG681	57	<1.0	<1.0	<1.0	<1.0	<1.0	88	<1.0	2.6	<1.0	6.2
SITE 38 - GROUND WATER											
W620	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
W622	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W623	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W625	1.7	<1.0	<1.0	2.0	<1.0	<1.0	6.1	<1.0	<1.0	<1.0	<1.0
W627	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W628	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W630	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5
W636	<7.5	<7.5	<7.5	188	70	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5
W638	285	<15	<15	885	150	96	216	<15	2,721	<15	4,754
W639	195	<15	<15	128	<15	<15	63	<15	<15	<15	<15
W640	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0
BUILDING 45 SITE - GROUND WATER											
W45-1	4.5	<1.0	6.9	16	3.4	<1.0	7.3	<1.0	<1.0	<1.0	<1.0
W45-2	<1.0	<1.0	4.5	<1.0	7.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W45-3	6.8	<1.0	16	<1.0	1,190	<1.0	<1.0	<1.0	86	<1.0	7.1
W45-4	<1.0	<1.0	<1.0	<1.0	11	<1.0	<1.0	<1.0	3.7	<1.0	<1.0
W45-5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

11DCE/TCTFA = 1,1-dichloroethene/trichlorotrifluoroethane

TCE = trans-1,2-dichloroethene

CHCl3 = chloroform

TCE = trichloroethene

11DCA = 1,1-dichloroethane

111TCA = 1,1,1-trichloroethane

112TCA = 1,1,2-trichloroethane

CH2CL2 = methylene chloride

c12DCE = cis-1,2-dichloroethene

CCl4 = carbon tetrachloride

PCE = tetrachloroethene



TABLE 2

ANALYTE CONCENTRATIONS VIA GC/ECD (µg/l)

SAMPLE	11DCE/ TCTFA	CH2CL2	112DCE	11DCA	c12DCE	CHCl3	111TCA	CCl4	TCE	112TCA	PCE
REPORTING LIMIT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FIELD CONTROL SAMPLES (CONT.)											
B61	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B62	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B63	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B64	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B65	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B66	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B67	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B68	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B69	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B71	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B72	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B73	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B74	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B76	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B77	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B601	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B602	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B603	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B604	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B605	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B606	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B607	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B608	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B609	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

11DCE/TCTFA = 1,1-dichloroethene/trichlorotrifluoroethane

112DCE = trans-1,2-dichloroethene

CHCl3 = chloroform

TCE = trichloroethene

11DCA = 1,1-dichloroethane

111TCA = 1,1,1-trichloroethane

112TCA = 1,1,2-trichloroethane

CH2CL2 = methylene chloride

c12DCE = cis-1,2-dichloroethene

CCl4 = carbon tetrachloride

PCE = tetrachloroethene

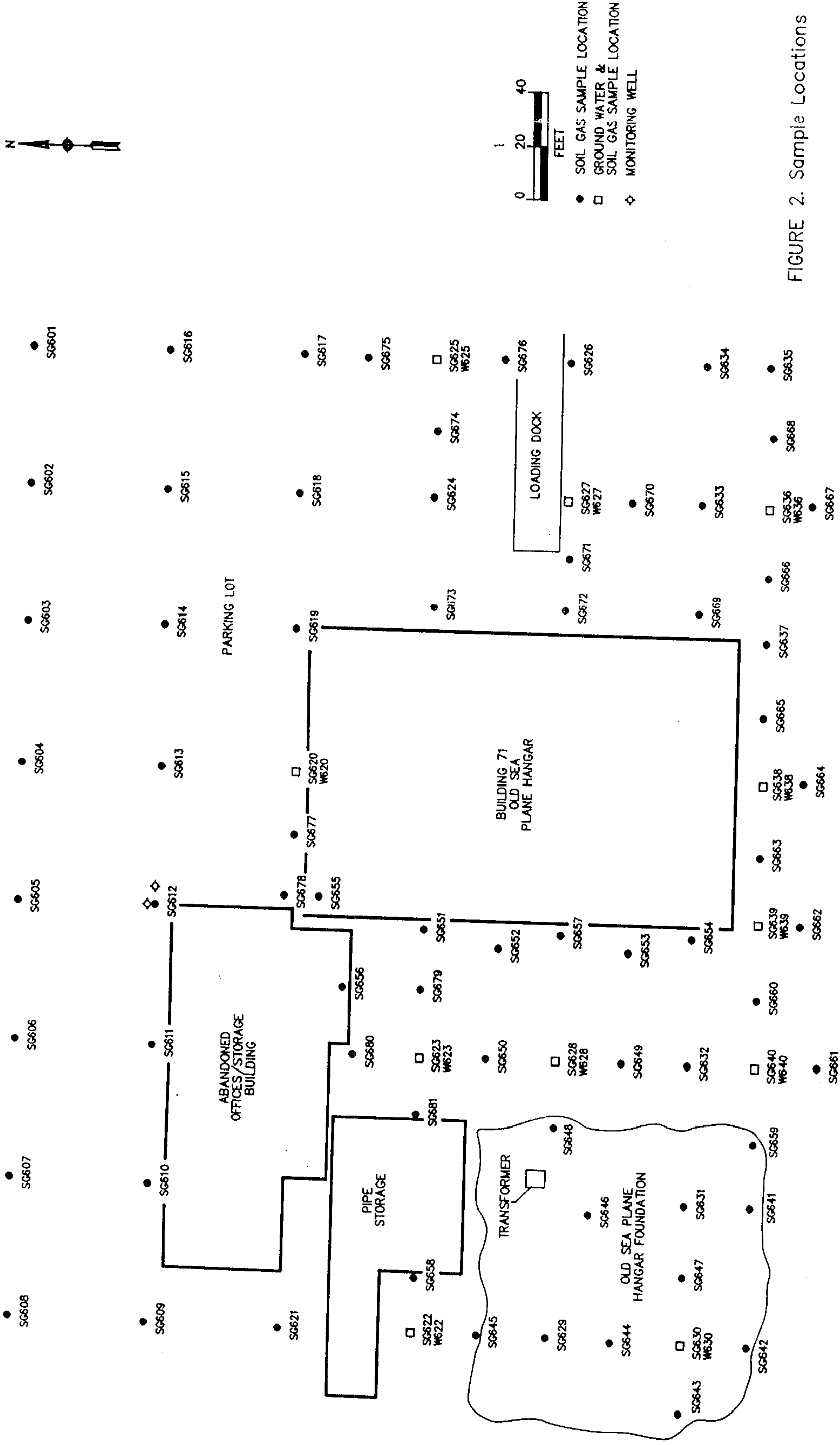
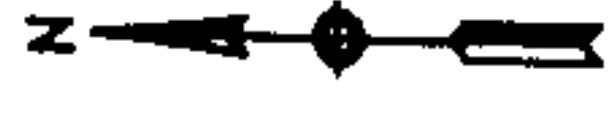


FIGURE 2. Sample Locations

TABLE 1

ANALYTE CONCENTRATIONS VIA GC/FID (µg/l)

SAMPLE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-	XYLENES	TOTAL FID
				BENZENE		VOLATILES*
REPORTING LIMIT		1.0	1.0	1.0	1.0	10
<u>SITE 30 - GROUND WATER (CONT.)</u>						
W253	23	<1.0	<1.0	<1.0	<1.0	<10
W254	23	<1.0	<1.0	<1.0	<1.0	<10
W255	23	<1.0	<1.0	<1.0	<1.0	<10
W256	23	<1.0	<1.0	<1.0	<1.0	<10
W257	23	<1.0	<1.0	<1.0	<1.0	<10
W259	23	<1.0	<1.0	<1.0	4.7	30
W260	23	1.4	5.2	9.6	41	70
W261	23	<1.0	<1.0	1.7	5.6	<10
W262	20	<1.0	<1.0	<1.0	<1.0	<10
W268	14	<1.0	<1.0	<1.0	<1.0	<10
W279	23	<1.0	<1.0	<1.0	<1.0	<10
W282	23	<1.0	<1.0	<1.0	<1.0	<10
W286	23	<1.0	<1.0	<1.0	<1.0	<10
W287	17	<1.0	<1.0	<1.0	<1.0	<10
<u>SITE 30 - SOIL</u>						
27S27	NR	<1.0	<1.0	<1.0	<1.0	<10
27S27A	NR	<1.0	<1.0	<1.0	<1.0	<10
27GI05	NR	<1.0	<1.0	<1.0	6.4	<10
<u>SITE 38 - SOIL GAS</u>						
SG601	4	<1.0	<1.0	<1.0	<1.0	<10
SG602	4	<1.0	<1.0	<1.0	<1.0	<10
SG603	4	<1.0	<1.0	<1.0	<1.0	<10
SG604	4	<1.0	<1.0	<1.0	<1.0	<10
SG605	4	<1.0	<1.0	<1.0	<1.0	<10
SG606	4	<1.0	<1.0	<1.0	<1.0	<10
SG607	4	<1.0	<1.0	<1.0	<1.0	<10
SG608	4	<1.0	<1.0	<1.0	<1.0	<10
SG609	4	<1.0	<1.0	<1.0	<1.0	<10
SG610	4	<1.0	<1.0	<1.0	<1.0	<10

NR = SAMPLE DEPTH NOT RECORDED BY TARGET PERSONNEL

\* CALCULATED USING THE SUM OF THE AREAS OF ALL INTEGRATED CHROMATOGRAM PEAKS AND THE INSTRUMENT RESPONSE FACTOR FOR TOLUENE



TABLE 1

## ANALYTE CONCENTRATIONS VIA GC/FID (µg/l)

SAMPLE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	TOTAL FID VOLATILES*
REPORTING LIMIT		1.0	1.0	1.0	1.0	10
<u>SITE 38 - SOIL GAS (CONT.)</u>						
SG611	4	<1.0	<1.0	<1.0	<1.0	<10
SG612	4	<1.0	1.2	<1.0	<1.0	<10
SG613	4	<1.0	<1.0	<1.0	<1.0	<10
SG614	4	<1.0	<1.0	<1.0	<1.0	<10
SG615	4	<1.0	<1.0	<1.0	<1.0	<10
SG616	4	<1.0	<1.0	<1.0	<1.0	<10
SG617	4	<1.0	<1.0	<1.0	<1.0	<10
SG618	4	<1.0	<1.0	<1.0	<1.0	<10
SG619	4	<1.0	<1.0	<1.0	<1.0	<10
SG620	4	<1.0	<1.0	<1.0	<1.0	<10
SG621	4	<1.0	<1.0	<1.0	<1.0	<10
SG622	3	<1.0	<1.0	<1.0	<1.0	<10
SG623	3	<1.0	<1.0	<1.0	<1.0	297
SG624	3	<1.0	<1.0	<1.0	<1.0	<10
SG625	3	<1.0	<1.0	<1.0	<1.0	<10
SG626	3	<1.0	<1.0	<1.0	<1.0	<10
SG627	3	<1.0	<1.0	<1.0	<1.0	<10
SG628	2	<1.0	<1.0	<1.0	<1.0	25
SG629	3	<1.0	1.1	<1.0	<1.0	<10
SG630	3	<1.0	2.2	<1.0	<1.0	17
SG631	3	<1.0	<1.0	<1.0	<1.0	20
SG632	3	<1.0	<1.0	<1.0	<1.0	206
SG633	3	<1.0	1.0	<1.0	<1.0	12
SG634	3	<1.0	<1.0	<1.0	1.1	<10
SG635	3	<1.0	<1.0	<1.0	<1.0	<10
SG636	3	<1.0	<1.0	<1.0	<1.0	<10
SG637	3	<1.0	<1.0	<1.0	<1.0	<10
SG638	2	<1.0	<1.0	<1.0	<1.0	58
SG639	2	<1.0	<1.0	<1.0	<1.0	23
SG640	2	<1.0	<1.0	<1.0	<1.0	44

\* CALCULATED USING THE SUM OF THE AREAS OF ALL INTEGRATED CHROMATOGRAM PEAKS AND THE INSTRUMENT RESPONSE FACTOR FOR TOLUENE

TABLE 1

ANALYTE CONCENTRATIONS VIA GC/FID (µg/l)

SAMPLE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	TOTAL FID VOLATILES*
REPORTING LIMIT		1.0	1.0	1.0	1.0	10
SITE 38 - SOIL GAS (CONT.)						
SG641	2	<1.0	<1.0	<1.0	<1.0	<10
SG642	2	<1.0	<1.0	<1.0	<1.0	<10
SG643	3	<1.0	2.3	<1.0	<1.0	<10
SG644	3	<1.0	1.2	<1.0	<1.0	<10
SG645	3	<1.0	<1.0	<1.0	<1.0	<10
SG646	3	<1.0	<1.0	<1.0	<1.0	<10
SG647	3	<1.0	2.2	<1.0	<1.0	136
SG648	3	<1.0	1.2	<1.0	<1.0	23
SG649	3	<1.0	<1.0	<1.0	<1.0	112
SG650	3	<1.0	<1.0	<1.0	<1.0	318
SG651	3	<1.0	<1.0	<1.0	<1.0	1,553
SG652	3	<1.0	<1.0	<1.0	<1.0	137
SG653	3	<1.0	<1.0	<1.0	<1.0	79
SG654	3	<1.0	<1.0	<1.0	<1.0	23
SG655	3	<1.0	<1.0	<1.0	<1.0	37
SG656	3	<1.0	1.6	<1.0	<1.0	181
SG657	3	<1.0	<1.0	<1.0	<1.0	121
SG658	3	<1.0	2.2	<1.0	<1.0	29
SG659	3	<1.0	<1.0	<1.0	<1.0	34
SG660	3	<1.0	<1.0	<1.0	<1.0	30
SG661	3	<1.0	<1.0	<1.0	<1.0	29
SG662	3	<1.0	<1.0	<1.0	<1.0	<10
SG663	2	<1.0	<1.0	<1.0	<1.0	52
SG664	3	<1.0	<1.0	<1.0	<1.0	<10
SG665	3	<1.0	<1.0	<1.0	<1.0	13
SG666	3	<1.0	1.0	<1.0	<1.0	<10
SG667	3	<1.0	2.1	<1.0	2.9	39
SG668	3	<1.0	<1.0	<1.0	<1.0	<10
SG669	3	<1.0	<1.0	<1.0	<1.0	<10
SG670	3	<1.0	<1.0	<1.0	<1.0	<10

\* CALCULATED USING THE SUM OF THE AREAS OF ALL INTEGRATED CHROMATOGRAM PEAKS AND THE INSTRUMENT RESPONSE FACTOR FOR TOLUENE

TABLE 1

## ANALYTE CONCENTRATIONS VIA GC/FID (µg/l)

SAMPLE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	TOTAL FID VOLATILES*
REPORTING LIMIT		1.0	1.0	1.0	1.0	10
<b>SITE 38 - SOIL GAS (CONT.)</b>						
SG671	3	<1.0	<1.0	<1.0	<1.0	<10
SG672	3	<1.0	1.8	<1.0	3.0	21
SG673	3	<1.0	<1.0	<1.0	<1.0	49
SG674	3	<1.0	<1.0	<1.0	<1.0	<10
SG675	3	<1.0	<1.0	<1.0	<1.0	<10
SG676	3	<1.0	<1.0	<1.0	<1.0	<10
SG677	3	<1.0	<1.0	<1.0	<1.0	<10
SG678	3	<1.0	<1.0	<1.0	<1.0	<10
SG679	3	<1.0	<1.0	<1.0	<1.0	991
SG680	3	<1.0	<1.0	<1.0	<1.0	110
SG681	3	<1.0	<1.0	<1.0	<1.0	31
<b>SITE 38 - GROUND WATER</b>						
W620	8	<15	128	9,525	13,800	158,900
W622	5	<1.0	<1.0	<1.0	<1.0	<10
W623	5	<1.0	<1.0	<1.0	<1.0	<10
W625	5	<1.0	<1.0	<1.0	<1.0	<10
W627	5	<1.0	<1.0	<1.0	<1.0	<10
W628	5	<1.0	<1.0	<1.0	<1.0	<10
W630	5	<7.5	<7.5	<7.5	<7.5	<75
W636	5	593	106,700	9,930	37,180	2,078,000
W638	5	<15	68	2,730	3,585	76,050
W639	5	<15	<15	<15	<15	<150
W640	5	<1.0	<1.0	<1.0	<1.0	<10
<b>BUILDING 45 SITE - GROUND WATER</b>						
W45-1	6	<1.0	<1.0	<1.0	<1.0	14
W45-2	6	<1.0	<1.0	5.8	2.5	82
W45-3	6	<1.0	<1.0	<1.0	<1.0	485
W45-4	6	<1.0	<1.0	<1.0	<1.0	<10
W45-5	6	<1.0	<1.0	<1.0	<1.0	<10

\* CALCULATED USING THE SUM OF THE AREAS OF ALL INTEGRATED CHROMATOGRAM PEAKS AND THE INSTRUMENT RESPONSE FACTOR FOR TOLUENE



TABLE 1

## ANALYTE CONCENTRATIONS VIA GC/FID (µg/l)

SAMPLE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-	XYLENES	TOTAL FID
				BENZENE		VOLATILES*
REPORTING LIMIT		1.0	1.0	1.0	1.0	10
<b>FIELD CONTROL SAMPLES (CONT.)</b>						
B66	N/A	<1.0	<1.0	<1.0	<1.0	<10
B67	N/A	<1.0	<1.0	<1.0	<1.0	<10
B68	N/A	<1.0	<1.0	<1.0	<1.0	<10
B69	N/A	<1.0	<1.0	<1.0	<1.0	<10
B70	N/A	<1.0	<1.0	<1.0	<1.0	<10
B71	N/A	<1.0	<1.0	<1.0	<1.0	<10
B72	N/A	<1.0	<1.0	<1.0	<1.0	<10
B73	N/A	<1.0	<1.0	<1.0	<1.0	<10
B74	N/A	<1.0	<1.0	<1.0	<1.0	<10
B75	N/A	<1.0	<1.0	<1.0	<1.0	<10
B76	N/A	<1.0	<1.0	<1.0	<1.0	<10
B77	N/A	<1.0	<1.0	<1.0	<1.0	<10
B600	N/A	<1.0	<1.0	<1.0	<1.0	<10
B601	N/A	<1.0	<1.0	<1.0	<1.0	<10
B602	N/A	<1.0	<1.0	<1.0	<1.0	<10
B603	N/A	<1.0	<1.0	<1.0	<1.0	<10
B604	N/A	<1.0	<1.0	<1.0	<1.0	<10
B605	N/A	<1.0	<1.0	<1.0	<1.0	<10
B606	N/A	<1.0	<1.0	<1.0	<1.0	<10
B607	N/A	<1.0	<1.0	<1.0	<1.0	<10
B608	N/A	<1.0	<1.0	<1.0	<1.0	<10
B609	N/A	<1.0	<1.0	<1.0	<1.0	<10
<b>EQUIPMENT RINSEATE SAMPLES</b>						
WB1	N/A	<1.0	<1.0	<1.0	<1.0	<10
WB2	N/A	<1.0	<1.0	<1.0	<1.0	<10
WB3	N/A	<1.0	<1.0	<1.0	<1.0	<10
WB4	N/A	<1.0	<1.0	<1.0	<1.0	<10
WB5	N/A	<1.0	<1.0	<1.0	<1.0	<10
WB6	N/A	<1.0	<1.0	<1.0	<1.0	<10
WB7	N/A	<1.0	<1.0	<1.0	<1.0	<10
WB8	N/A	<1.0	<1.0	<1.0	<1.0	<10
WB9	N/A	<1.0	<1.0	<1.0	<1.0	<10
WB10	N/A	<1.0	<1.0	<1.0	<1.0	<10

\* CALCULATED USING THE SUM OF THE AREAS OF ALL INTEGRATED CHROMATOGRAM PEAKS AND THE INSTRUMENT RESPONSE FACTOR FOR TOLUENE

TABLE 2

ANALYTE CONCENTRATIONS VIA GC/ECD (µg/l)

SAMPLE	11DCE/ TCTFA	CH2Cl2	112DCE	11DCA	c12DCE	CHCl3	111TCA	CCl4	TCE	112TCA	PCE
REPORTING LIMIT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

SITE 30 - GROUND WATER (CONT.)

W253	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W254	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W255	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W256	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W257	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W259	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W260	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0
W261	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W262	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W268	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W279	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W282	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W286	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W287	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

SITE 30 - SOIL

27S27	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
27S27A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0
27GI05	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3

SITE 38 - SOIL GAS

SG601	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG602	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG603	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG604	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG605	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG606	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG607	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG608	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG609	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG610	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

11DCE/TCTFA = 1,1-dichloroethene/trichlorotrifluoroethane

11DCE = trans-1,2-dichloroethene

CHCl3 = chloroform

TCE = trichloroethene

11DCA = 1,1-dichloroethane

111TCA = 1,1,1-trichloroethane

112TCA = 1,1,2-trichloroethane

CH2CL2 = methylene chloride

c12DCE = cis-1,2-dichloroethene

CCl4 = carbon tetrachloride

PCE = tetrachloroethene

TABLE 2

ANALYTE CONCENTRATIONS VIA GC/ECD (µg/l)

SAMPLE	11DCE/ TCTFA	CH2Cl2	112DCE	11DCA	c12DCE	CHCl3	111TCA	CCl4	TCE	112TCA	PCE
REPORTING	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LIMIT											
SITE 38 - SOIL GAS (CONT.)											
SG611	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3
SG612	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0
SG613	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG614	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
SG615	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG616	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0	<1.0	1.4	<1.0	<1.0
SG617	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<1.0
SG618	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0
SG619	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG620	8.6	<1.0	<1.0	<1.0	<1.0	<1.0	8.5	<1.0	<1.0	<1.0	<1.0
SG621	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<1.0
SG622	4.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	3.7
SG623	148	<1.0	<1.0	18	<1.0	<1.0	912	<1.0	8.1	<1.0	38
SG624	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	1.6	<1.0	1.3
SG625	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	8.7	<1.0	1.9
SG626	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG627	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0
SG628	26	<1.0	<1.0	<1.0	<1.0	<1.0	55	<1.0	7.5	<1.0	5.7
SG629	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	2.2
SG630	5.9	7.8	<1.0	<1.0	12	<1.0	<1.0	<1.0	13	<1.0	2.6
SG631	10.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	30	<1.0	<1.0
SG632	158	<1.0	2.3	58	151	<1.0	145	<1.0	43	<1.0	26.0
SG633	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6
SG634	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG635	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	9.0	<1.0	3.3	<1.0	<1.0
SG636	9.6	<1.0	<1.0	4.8	<1.0	<1.0	1.0	<1.0	1.2	<1.0	3.0
SG637	3.2	<1.0	<1.0	3.4	<1.0	<1.0	1.2	<1.0	1.8	<1.0	<1.0
SG638	121	<1.0	<1.0	28	18	3.1	64	<1.0	27	<1.0	1.8
SG639	84	<1.0	<1.0	10	7.5	3.0	34	<1.0	8.9	<1.0	2.2
SG640	106	<1.0	<1.0	23	25	<1.0	37	<1.0	16	<1.0	6.6

11DCE/TCTFA = 1,1-dichloroethene/trichlorotrifluoroethane

2DCE = trans-1,2-dichloroethene

CHCl3 = chloroform

TCE = trichloroethene

11DCA = 1,1-dichloroethane

111TCA = 1,1,1-trichloroethane

112TCA = 1,1,2-trichloroethane

CH2CL2 = methylene chloride

c12DCE = cis-1,2-dichloroethene

CCl4 = carbon tetrachloride

PCE = tetrachloroethene



TABLE 2

ANALYTE CONCENTRATIONS VIA GC/ECD (µg/l)

SAMPLE	11DCE/ TCTFA	CH2CL2	112DCE	11DCA	c12DCE	CHCl3	111TCA	CCl4	TCE	112TCA	PCE
REPORTING LIMIT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>SITE 38 - SOIL GAS (CONT.)</b>											
SG641	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.0	<1.0	<1.0
SG642	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SG643	6.8	3.4	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	6.9	<1.0	3.5
SG644	1.9	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	1.2
SG645	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	6.2
SG646	5.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10	<1.0	1.0
SG647	66	7.0	1.2	<1.0	95	1.1	2.8	<1.0	264	<1.0	3.3
SG648	20	<1.0	<1.0	<1.0	<1.0	<1.0	27	<1.0	10	<1.0	21
SG649	151	<1.0	<1.0	9.1	2.8	2.9	167	<1.0	90	<1.0	81
SG650	<1.0	<1.0	<1.0	51	73	1.7	858	<1.0	33	<1.0	52
SG651	360	<1.0	<1.0	83	10	4.0	3,371	<1.0	78	<1.0	1,127
SG652	224	<1.0	<1.0	13	46	9.7	181	<1.0	90	<1.0	52
SG653	164	<1.0	<1.0	7.0	14	12	88	<1.0	82	<1.0	5
SG654	46	<1.0	<1.0	7.8	16	3.0	17	<1.0	16	<1.0	6
SG655	264	<1.0	<1.0	2.6	<1.0	<1.0	76	<1.0	8.4	<1.0	.
SG656	313	88	<1.0	72	<1.0	<1.0	397	<1.0	20	<1.0	121
SG657	155	<1.0	<1.0	8.8	9.9	21	97	<1.0	158	<1.0	55
SG658	23	76	<1.0	<1.0	<1.0	1.1	4.5	<1.0	17	2.5	6.8
SG659	194	<1.0	<1.0	22	4.8	<1.0	40	<1.0	17	<1.0	5.9
SG660	40	<1.0	<1.0	20	13	<1.0	18	<1.0	26	<1.0	17
SG661	102	<1.0	<1.0	23	31	<1.0	21	<1.0	14	<1.0	8.7
SG662	29	<1.0	<1.0	5.8	<1.0	1.1	9.6	<1.0	4.4	<1.0	1.1
SG663	205	<1.0	<1.0	26	12	5.8	58	<1.0	16	<1.0	10
SG664	18	<1.0	<1.0	3.1	<1.0	<1.0	5.0	<1.0	4.9	<1.0	<1.0
SG665	7.8	<1.0	<1.0	5.4	4.1	<1.0	4.5	<1.0	22	<1.0	<1.0
SG666	14	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.8
SG667	17	<1.0	<1.0	6.2	<1.0	<1.0	2.2	<1.0	2.2	<1.0	2.9
SG668	4.3	<1.0	<1.0	1.4	<1.0	<1.0	2.0	<1.0	6.1	<1.0	2.2
SG669	15	<1.0	<1.0	10	<1.0	<1.0	3.5	<1.0	2.4	<1.0	4.4
SG670	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	1.7

11DCE/TCTFA = 1,1-dichloroethene/trichlorotrifluoroethane

DCE = trans-1,2-dichloroethene

CHCl3 = chloroform

TCE = trichloroethene

11DCA = 1,1-dichloroethane

111TCA = 1,1,1-trichloroethane

112TCA = 1,1,2-trichloroethane


CH2CL2 = methylene chloride

c12DCE = cis-1,2-dichloroethene


CCl4 = carbon tetrachloride

PCE = tetrachloroethene


**Appendix E**  
**Soil Boring Logs**

DATE OF BORING: 07/26/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPL. #	DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS Class	TIME	VAPOR READINGS	Sample type SS = Splitspoon sampler BG (Background) Organic vapor concentration = 0.0 ppm
							Ground cover is 3 inches of asphalt with 10 inches of concrete.
1		SS	100	RL	1455	BG	(0-2 feet) 0.0 - 0.8 Clayey sand, red. 0.8 - 2.0 Medium to fine grained sand white with black laminae.
2		SS	100	SW	1455	BG	(2-4 feet) 2.0 - 4.0 Medium to fine grained sand white with black laminae (0.2 - 0.4 inches thick).
3	5	SS	33	SW	1455	BG	(4-6 feet) Medium to fine grained sand, white with black laminae. Groundwater at approx. 4.2 feet.
	10						
	15			SW		BG	(14 - 17) Cuttings. White, medium to fine grained sand.
	20			SW		BG	(22 - 25) Cuttings. White, medium to fine grained sand.
	25						
4	30	SS	70	SW	1136	BG	(28-30 feet) Clayey-silty sand, dark gray.
	35						Boring Terminated at 30 Feet. Monitoring well 38GI01 installed approximately 27 ft.
	40						
 <b>REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.</b>						<b>Site 38 Boring 38S01</b>	
						DATE 10/08/94      DWG NAME: 38S01	




DATE OF BORING: 07/26/93						DESCRIPTION OF SUBSURFACE MATERIALS
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	BLOWS/FT.	TIME	VAPOR READINGS	
						Ground cover is 3 inches of asphalt.
						No samples collected for this boring. All subsurface information is recorded on the boring log for 38S01 (monitoring well 38GI01) co-located with this boring.
5						
						Cuttings - Medium to fine gray sand.
10						
						Monitoring well 38GS01 set at approximately 13 feet.
						BORING TERMINATED AT 13 FT
15						
20						
25						
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.
						SITE 38 BORING 38S02
						DATE: 10/09/94
						DWG NAME: 38S02


DATE OF BORING: 07/26/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPL. No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS Class	TIME	VAPOR READINGS	Sample type SS = Splitspoon sampler BG (Background) organic vapor concentration = 0.0 ppm Groundcover is 12 inches of concrete.	
	HA	100	FL SW	0835	0.0	(0-1 Feet) Ground cover reinforced concrete (0 - 0.7 feet). Medium grained, gray sand with small gravel (0.7 - 1.0).	
	HA	100	SW	0845	0.0	(1-3 Feet) Medium to fine grained gray to white sand with some small gravel.	
	HA	100	SW	0855	0.0	(3-5 Feet) Medium to fine grained gray to white sand. Groundwater at approximately 4.6 feet.	
						BORING TERMINATED AT 5 FT	
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S03	
						DATE: 10/09/94	DWG NAME: 38S03

DATE OF BORING: 07/27/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS Class	TIME	VAPOR READINGS	Sampler type SS = Splitspoon sampler	
						BG (BACKGROUND) = 0.0 ppm	
						Ground cover 12 inches of concrete	
1	SS	79	SP	1000	BG	(0-2 feet) Brownish medium to fine grained sand and some small gravel.	
2	SS	92	SW	1015	60	(2-4 feet) Medium to fine grained brown sand, becomes dark green to gray at 3 ft.	
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20	SS	70	push	1135	1200	(20 - 22) Sand blow-in the hollow stem. Flushed augers and resampled.	
21				1137		(21 - 23) Resampled, no recovery.	
22	SS	0	push	1142		(22 - 24) Resampled, no recovery.	
23							
24							
25							
26	SS	79	push	1208	BG	(25-27 feet) Grayish-white medium grained sand with some coarse and some fine grained sand, had to flush augers to retrieve samples.	
27							
28							
29							
30	SS	58	push	1320	0.0	(30-32 feet) White medium to fine grained sand, no clay, had to flush augers to retrieve sample.	
31							
32							
33	SS	0	push	1505	0.0	(35-37 feet) No recovery - had to flush augers to retrieve sample.	
34							
35							
36							
37							
38	SS	0	push	0750	0.0	(40-42 feet) No recovery. Cuttings, medium grained dark gray sand with some clay and silt.	
39							
40	SS	0	push	0825	32	(42-44 feet) Two attempts to sample no recovery. Cuttings, medium to coarse dark gray sand with some clay and silt.	
41							
42							
43							
44	SS	100	push	0855	0.0	(46-48 feet) Hard dark green clay with silt and minor fine grained sand.	
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100							
						Boring Terminated at 48 Feet.	
						Monitoring well 38GI02 installed approximately 43 ft.	
 <b>REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.</b>						<b>Site 38 Boring 38S04</b>	
						DATE 10/09/94      DWG NAME 38S04	



DATE OF BORING: 07/28/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover 8 inches of concrete	
1	HA	100	SW	1015	3.0	(0-1 Feet) Ground cover reinforced concrete (0 - 0.7 feet). Medium-grained, dark gray sand with small gravel.	
2	HA	100	SW	1019	28.0	(1-3 Feet) Medium to fine-grained gray to white sand with some gravel.	
3	HA	100	SW	1030	64.0	(3-4 Feet) Medium to fine-grained gray to white sand. Groundwater at 4.6.	
5					124.0	Cuttings - medium grained white to gray sand. Boring completed in level of PPE.	
10					21.0	BORING TERMINATED AT 13 FT Monitoring well 38GS04 set at approximately 13.5 feet on 02/02/93.	
15							
20							
25							
 <div>REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.</div>						Site 38 Boring 38S05	
						DATE: 10/10/94	DWG NAME: 38S05

DATE OF BORING: 07/29/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover is 10 inches of concrete.	
1	HA	100	SW	0630	0.0	(0-1 Feet) Ground cover reinforced concrete (0 - 0.7 feet). Medium to coarse grained, gray sand with small dark staining, gravel at bottom of sample.	
1	HA	100	SW	0635	0.0	(1-3 Feet) Medium to coarse grained gray sand with some small gravel.	
2							
2							
3	HA	100	SW	0645	0.0	(3-3.8 Feet) Coarse grained gray sand with some medium grained sand. Groundwater at 3.7 feet.	
3							
4						BORING TERMINATED AT 3.8 FT	
5							
6							




REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.

Site 38  
Boring 38S07

DATE: 10/15/94

DWG NAME: 38S07

DATE OF BORING: 07/29/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLER No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentrations = 0.0 ppm Groud cover is 10 inches of concrete.	
	HA	100	SW	0705	0.0	(0-1 Feet) Ground cover reinforced concrete (0 - 0.5 feet). Medium to coarse grained, gray sand with small dark staining.	
	HA	100	SW	0715	0.0	(1-3 Feet) Medium to coarse grained gray sand with some dark staining.	
	HA	100	SW	0725	0.0	(3-3.8 Feet) Medium to coarse grained gray sand. Groundwater at 3.7 feet.	
	BORING TERMINATED AT 3.7 FT						
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S08	
DATE 10/15/94						DWG NAME 38S08	



DATE OF BORING: 07/29/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS		
1	HA	100	SW	0745	0.0	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover 8 inches of concrete	
2	HA	100	SW	0755	0.0	(0-1 Feet) Ground cover reinforced concrete with a gravel base (0 - 0.7 feet). Medium to coarse-grained, dark gray sand (0.7 - 1.0). (1-3 Feet) Medium to coarse-grained gray sand. Groundwater at 3.2 feet.	
5							
10						Cutings - medium grained gray sand.  BORING TERMINATED AT 13 FT  Monitoring well 38GS03 set at approximately 13.0 feet on 07/28/93.	
15							
20							
25							


REMEDIAL INVESTIGATION  
 NAS PENSACOLA  
 PENSACOLA, FL.

Site 38  
 Boring 38S09

DATE: 08/15/94

DWG NAME: 38S09

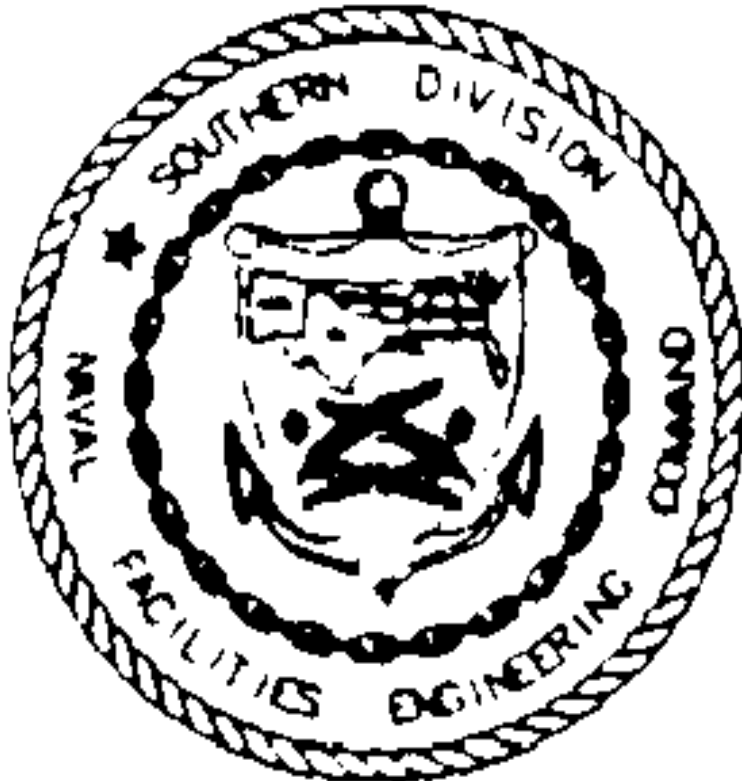
DATE OF BORING: 07/29/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPL. No.	DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover 10 inches of concrete.
1	0	HA	100	SW	0813	0.0	(0-1 Feet) Ground cover reinforced concrete (0 - 0.5 feet). Medium to coarse grained, gray sand.
1	1	HA	100	SW	0815	0.0	(1-3 Feet) Medium to coarse grained gray sand.
2	2						
3	3	HA	100	SW	0820	0.0	(3-3.8 Feet) Medium to coarse grained gray sand. Groundwater at 3.8 feet.
3							
4							BORING TERMINATED AT 3.9 FT
5							
6							



REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.


Site 38  
Boring 38S10

DATE: 10/15/94      DWG NAME: 38S10

DATE OF BORING: 07/29/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger	
						BG (Background) organic vapor concentration = 0.0 ppm	
						Ground cover is 10 inches concrete	
1	HA	100	SW	0930	0.0	(0-1 Feet) Ground cover reinforced concrete gravel base (0 - 0.5 feet). Medium to coarse grained, gray sand.	
1	HA	100	SW	0932	30.5	(1-3 Feet) Medium to coarse grained gray sand.	
2							
2							
3	HA	100	SW	0938	60.0	(3-3.9 Feet) Medium to coarse grained gray sand. Groundwater at 3.9 feet.	
3							
4						BORING TERMINATED AT 4.0 FT	
5							
6							
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S11	
						DATE 10/15/94	DWG NAME 38S11



DATE OF BORING: 07/25/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentrations = 0.0 ppm Ground cover 14 inches concrete building slab.	
1	HA	100	SW	1440	10.0	(0-1 Feet) Ground cover reinforced concrete gravel base (0 - 0.7 feet). Medium to fine grained, gray sand.	
1	HA	100	SW	1442	18.0	(1-3 Feet) Medium to coarse grained gray sand with moderate dark staining.	
2							
2							
3	HA	100	SW	1451	25.0	(3-3.9 Feet) Medium to coarse grained gray sand staining decreasing with depth. Groundwater at 4.1 feet.	
3							
4						BORING TERMINATED AT 4.2 FT	
5							
6							




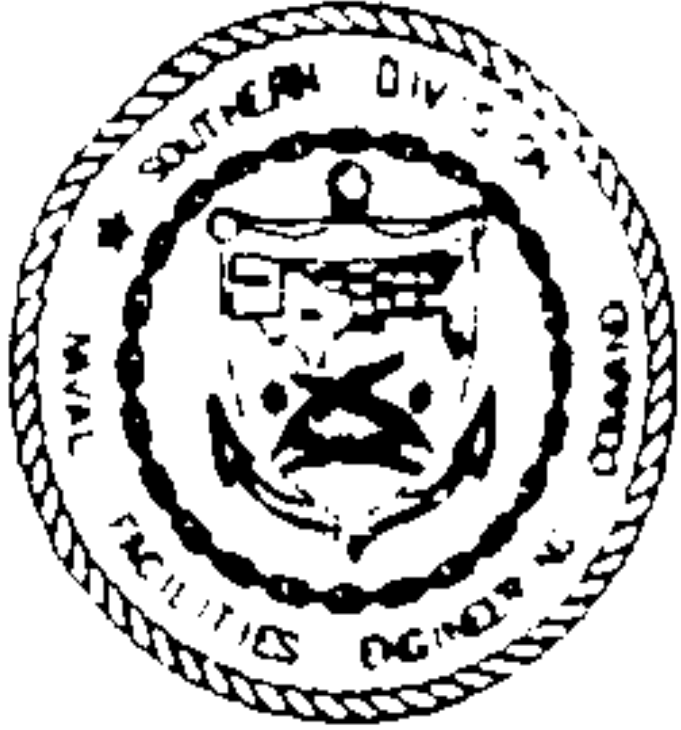
REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.

Site 38  
Boring 38S12

DATE: 10/15/94

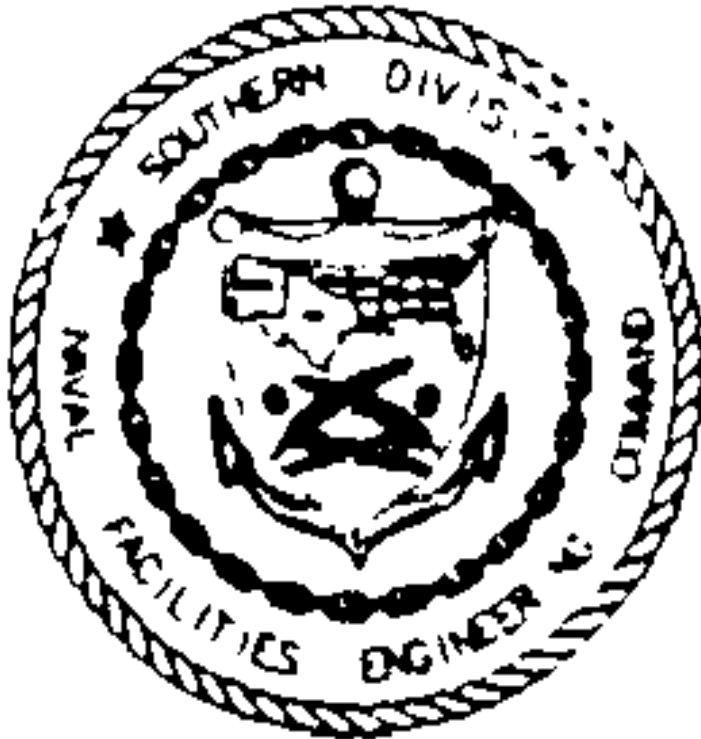
DWG NAME: 38S12

DATE OF BORING: 07/29/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger	
						BG (Background) organic vapor concentration = 0.0 ppm	
						Ground cover 14 inches of concrete building slab	
1	HA	100	SW	1510	0.0	(0-1 Feet) Ground cover reinforced concrete gravel base (0 - 0.7 feet). Medium to fine grained, gray sand.	
1	HA	100	SW	1515	22.0	(1-3 Feet) Medium to coarse grained gray sand.	
2							
2							
3	HA	100	SW	1527	3.9	(3-3.9 Feet) Medium to coarse grained gray sand. Groundwater at 3.9 feet.	
3							
4						BORING TERMINATED AT 4.0 FT	
5							
6							
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S13	
						DATE: 10/15/94	
						DWG NAME: 38S13	

DATE OF BORING: 07/28/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover 8 inches of concrete	
1	HA	100	SW	1558	0.0	(0-1 Feet) Ground cover reinforced concrete with a gravel base (0 - 0.7 feet). Medium to fine-grained, dark gray sand.	
2	HA	100	SW	1600	2.0	(1-3 Feet) Medium to coarse-grained gray sand.	
3	HA	100	SW	1605	3.9	(3-4.2 Feet) Medium to coarse-grained gray to white sand. Groundwater at 4.1.	
5							
10						Cuttings - medium grained gray sand.	
15						BORING TERMINATED AT 13 FT Monitoring well 38GS12 set at approximately 13.0 feet on 12/02/93.	
20							
25							
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S14	
						DATE: 10/12/94	DWG NAME 38S14



DATE OF BORING: 07/29/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover is 14 inches of concrete building slab	
1	HA	100	SW	1625	0.0	(0-1 Feet) Ground cover reinforced concrete gravel base (0 - 0.8 feet). Medium to fine grained, dark gray sand.	
1	HA	100	SW	1630	2.0	(1-3.3 Feet) Medium to coarse grained gray sand.	
2							
2							
3						BORING TERMINATED AT 3.4 FT	
4							
5							
6							

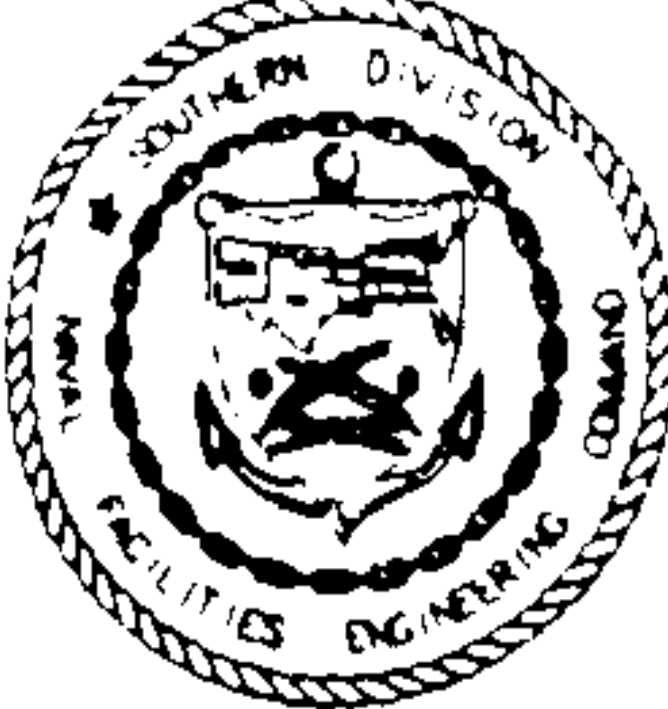


REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.

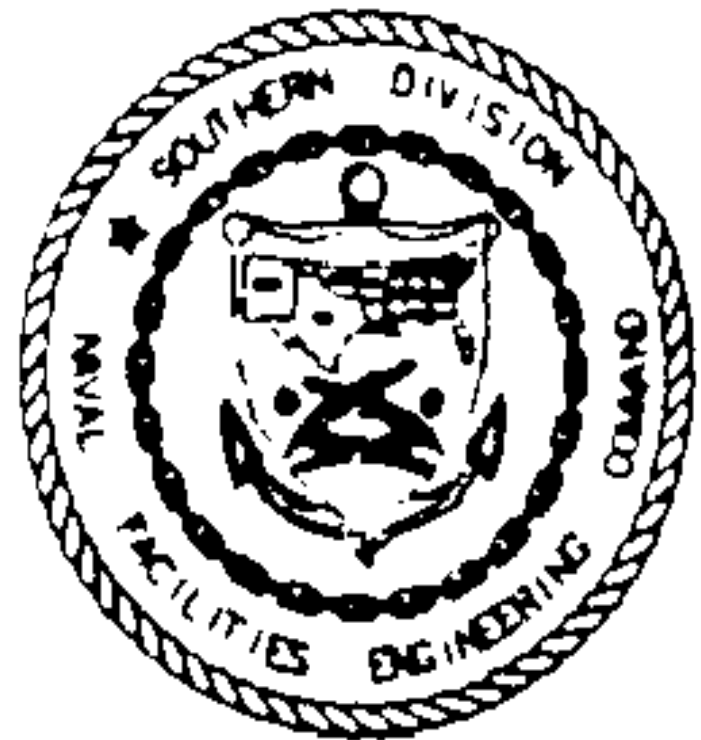
Site 38  
Boring 38S15

DATE: 10/15/94

DWG NAME: 38S15

DATE OF BORING: 08/04/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger	
						BG (Background) = 0.0 ppm	
						Ground cover 14 inches of concrete building slab	
1	HA	100	SW	1100	5.2	(0-1.2 Feet) Ground cover reinforced concrete gravel base (0 - 0.9 feet). Medium grained, gray sand.	
1	HA	100	SW	1108	24.0	(1-3 Feet) Medium to coarse grained gray sand.	
2							
3	HA	100	SW	1112	3.9	(3-4.2 Feet) Medium to coarse grained gray sand. Groundwater at 4.1 feet.	
3							
4						BORING TERMINATED AT 4.4 FT	
5							
6							
 REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.						Site 38 Boring 38S16	
						DATE: 10/15/94	
						DWG NAME 38S16	

DATE OF BORING: 08/04/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Backgroun) organic vapor concentration = 0.0 ppm Ground cover 14 inches of concrete building slab	
1	HA	100	SW	1125	0.0	(0-1.0 Feet) Ground cover reinforced concrete gravel base (0 - 0.6 feet). Medium grained, gray sand with some gravel.	
1	HA	100	SW	1132	2.0	(1-3 Feet) Medium to coarse grained dark gray sand.	
2							
2							
3	HA	100	SW	1141	0.0	(3-4.2 Feet) Medium to coarse grained gray sand. Groundwater at 3.9 feet.	
3							
4						BORING TERMINATED AT 4.2 FT	
5							
6							



REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.

Site 38  
Boring 38S17


DATE: 10/15/94

DWG NAME: 38S17





DATE OF BORING: 08/04/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover 14 inches of concrete building slab	
1	HA	100	SW	1228	0.0	(0-1 Feet) Ground cover reinforced concrete gravel base (0 - 0.6 feet). Medium grained, dark gray sand.	
1	HA	100	SW	1237	2.0	(1-3.3 Feet) Medium grained gray sand with some coarse grained sand. Groundwater at 3.1 feet.	
2							
3						BORING TERMINATED AT 3.3 FT	
4							
5							
6							

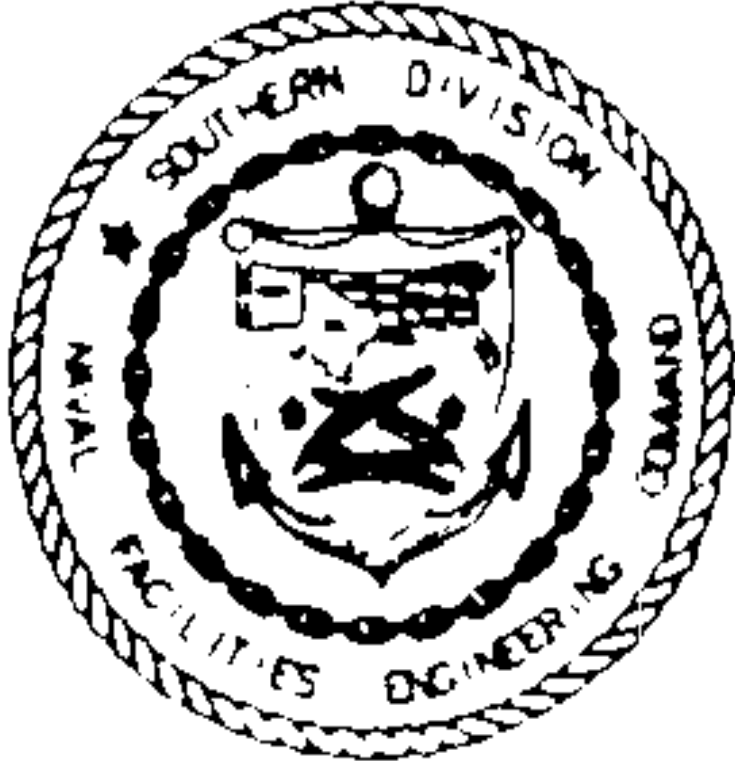


REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.


Site 38  
Boring 38S19

DATE: 10/15/94


DWG NAME: 38S19

DATE OF BORING: 07/27/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type SS = splitspoon BG (Background) organic vapor concentration = 0.0 ppm Ground cover 12 inches concrete	
5			SW		BG	Cuttings - gray medium to fine grained sand. Groundwater at approximately 3.8 feet.	
10			SW		BG	(8 - 12) Cuttings. White, medium to fine grained sand.	
15					BG		
20			SW			(20 - 28) White, medium to fine grained sand.	
25							
30	SS	100	SW	1450	BG BG	(28-30 feet) White medium to fine grained sand.	
35							
40	SS	100	SW	1515	BG	(33-35 feet) Slightly clayey medium to fine grained sand.	
45							
46	SS	100	SC	1535	BG	(38-40 feet) Slightly clayey medium grained sand.	
47							
48	SS	100	SW	1555	BG	(43-45 feet) Medium to fine grained sand.	
49	SS	100	SW	1610	BG	(45-47 feet) Dark green clay mixed with silt and fine grained sand.	
						Boring Terminated at 47 Feet. Monitoring well 38GI03 installed approximately 42 ft.	
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S20	
						DATE: 10/12/94	DWG NAME: 38S04



DATE OF BORING: 07/30/93						DESCRIPTION OF SUBSURFACE MATERIALS
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS Class	TIME	VAPOR READINGS	
						Ground cover is 12 inches of concrete.
						No samples collected for this boring. All subsurface information is recorded on the boring log for 38S04 (monitoring well 38GI02) co-located with this boring.
5			SW			Cuttings - Medium to fine gray sand.
10						Monitoring well 38GS02 set at approximately 13 feet.
						BORING TERMINATED AT 13 FT
15						
20						
25						
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.
						SITE 38 BORING 38S21
						DATE: 10/09/94
						DWG NAME: 38S02

DATE OF BORING: 07/28/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger	
						BG (Background) organic vapor concentration = 0.0 ppm	
						Ground cover 4 inches of asphalt	
1	HA	100	SW	1015	3.0	(0-1 Feet) Asphalt with gravel base (0-0.4) Medium to coarse grained sand white becomes darker with depth.	
2	HA	100	SW	1010	23.0	(1-3 Feet) Medium to coarse grained gray sand with some small gravel.	
3	HA	100	SW	1030	54.0	(3-4 Feet) Medium to coarse grained gray sand with some small gravel. Groundwater at 4.2.	
5					132.0		
10					21.0	Cuttings - medium grained white to gray sand. Boring completed in level "C" PPE.	
						BORING TERMINATED AT 13 FT	
						Monitoring well 38GS06 set at approximately 13 feet on 08/03/93.	
15							
20							
25							




REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.


Site 38  
Boring 38S22

DATE: 10/12/94


DWG NAME: 38S22

DATE OF BORING: 12/01/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover 10 inches of concrete	
1	HA	100	SW	1115	23.0	(0-1 Feet) Concrete (0-0.8) Gravel - no sample recovery. (1-3 Feet) Medium to fine grained, moderately well sorted gray sand. Groundwater at 3.0 feet.	
5							
10					300	Cuttings - medium grained grayish white sand. Donned level "C" ppe PID indicating 300 (+) ppm.	
15					21.0	BORING TERMINATED AT 13 FT  Monitoring well 38GS10 set at approximately 13 feet.	
20							
25							
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S24	
						DATE: 10/12/94	DWG NAME: 38S2



DATE OF BORING: 12/01/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type SS = splitspoon BG (Background) organic vapor concentration = 0.0 ppm Ground cover 10 inches of concrete	
1	SS	88	SW	135	113	(0-2 Feet) Concrete (0-0.8) Gravel - Brown, medium to fine grained moderately well sorted sand.	
2	SS	100	SW	1405	113	(2.5-4.5 Feet) Brown medium to fine grained sand (2.5 - 3.3). White medium grained sand. Groundwater at 3.0 feet.	
5							
10							
15						BORING TERMINATED AT 13 FT  Monitoring well 38GS11 set at approximately 13 feet.	
20							
25							
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S25	
						DATE: 11/06/94	DWG NAME: 38S24

DATE OF BORING: 11/16/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS		
						Sampler type HA = hand auger, SS = splitspoon BG (Background) organic vapor concentration = 0.0 ppm Ground cover grass	
1	HA	100	SW	1115	BG	(0-1 feet) Grass, topsoil dark brown medium grained sand and gravel.	
2	HA	100	SW	1120	BG	(1-3 feet) Medium grained gray sand and small gravel.	
3	HA	83	SW	1135	BG	(3-5 feet) Groundwater at approx. 3.8 ft. Medium to fine grained gray sand (3.0 -3.8ft). Medium grained white sand moderately well sorted.	
4							
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19							
20	SS	33	SW	0650	BG	(20 - 22) Medium to fine white sand.	
21							
22							
23							
24							
25	SS	71	SW	0705	4.7	(25-27 feet) Light gray, medium grained sand, had to flush augers to retrieve sample.	
26							
27							
28							
29							
30	SS	71	SW	0715	4.0	(30-32 feet) White medium to fine grained sand, with some small gravel. Had to flush augers to retrieve sample.	
31							
32							
33							
34							
35	SS	83	SW	0722	4.8	(35-37 feet) Medium to fine grained with some silt and clay mixed (36.5 - 36.8).	
36							
37	SS	96	SW	0743	4.9	(37-39 feet) Medium to fine grained dark gray sand and small gravel with thin clay layers.	
38							
39							
40	SS	100	SW	0754	4.5	(40-42 feet) Medium to coarse grained sand with silt and clay and moderate amounts of shell fragments (41.2 - 42).	
41							
42							
43	SS	100	SW	0804	4.6	(43-45 feet) Medium to fine dark gray sand with shell fragments (43 - 44). Dark green, dense, hard clay (44 - 45).	
44							
45	SS	100	SW	0830	0.0	(45-47 feet) Shelby tube, full recovery. Hard dark green clay with silt.	
46							
47							
						Boring Terminated at 47 Feet. Monitoring well 38GI07 installed approximately 44 ft.	



**REMEDIAL INVESTIGATION**

**NAS PENSACOLA**


**PENSACOLA, FL.**

**Site38**

**Boring 38S26**


DATE: 10/09/94

DWG NAME: 38S26

DATE OF BORING: 12/02/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type SS = splitspoon	
						BG (Background) organic vapor concentration = 0.0 ppm	
						Ground cover 12 inches of concrete.	
1	SS	88	SW	1100	7.1	(0-2 Feet) Concrete (0- .06) Medium to fine grained with some gravel and brick.	
2	SS	100	SW	1103	BG	(2-4 Feet) Medium to coarse grained gray sand with some small gravel.	
5							
10							
15						Monitoring well 38GS13 set at approximately 13 feet.	
20						BORING TERMINATED AT 13 FT	
25							
 <b>REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.</b>						<b>Site 38 Boring 38S27</b>	
						DATE: 10/09/94	
						DWG NAME: 38S27	



DATE OF BORING: 12/01/93						DESCRIPTION OF SUBSURFACE MATERIALS
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	
	HA	100	SW	166	160	<p>Sampler type HA = hand auger</p> <p>BG (Background) organic vapor concentration = 0.0 ppm</p> <p>Ground cover is 10 inches concrete</p>
1						<p>(0-1 Feet) Ground cover reinforced concrete gravel base (0 - 0.7 feet). Medium to coarse grained, gray sand and gravel with some fragmented concrete.</p>
1						<p>Unable to penetrate a layer of gravel, boring terminated at 1.2 feet.</p>
2						
3						
4						
5						
6						




REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.

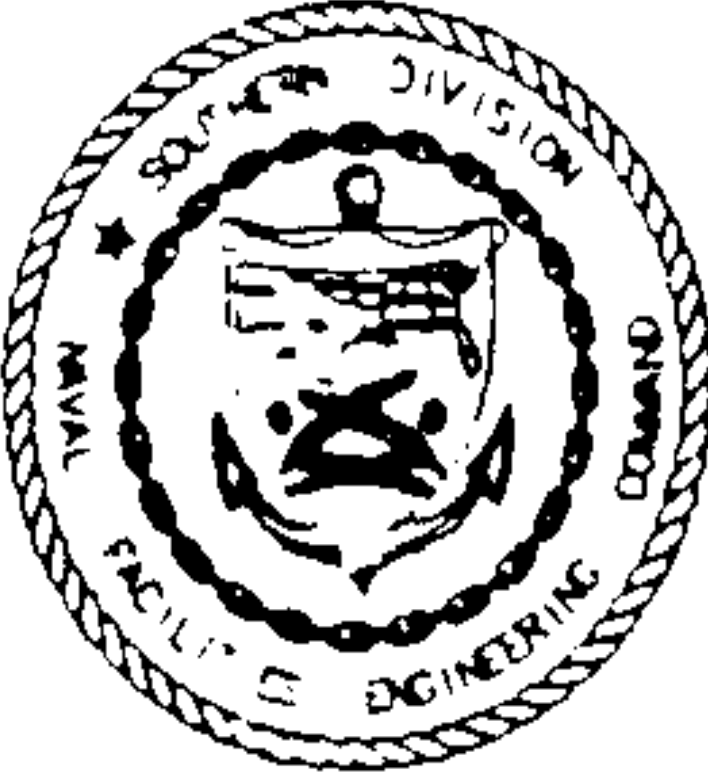
Site 38  
Boring 38S29

DATE 11/15/94

DWG NAME 38S29

DATE OF BORING: 12/07/93							DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger		
						BG (Background) organic vapor concentration = 0.0 ppm		
						Ground cover is 10 inches concrete		
1	HA	100	SW	1210	0.0	(0-1 Feet) Ground cover reinforced concrete gravel base (0 - 0.5 feet). Medium to coarse grained, gray sand.		
1	HA	100	SW	1215	0.0	(1-3 Feet) Medium to coarse grained gray sand.		
2								
3						BORING TERMINATED AT 3.0 FT		
4								
5								
6								
<div><div>REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.</div></div>							<div>Site 38 Boring 38S30</div> <div>DATE 10/15/94</div> <div>DWG NAME 38S11</div>	

DATE OF BORING: 12/07/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover is 10 inches concrete	
1	HA	100	SW	1130	0.0	(0-1 Feet) Ground cover reinforced concrete gravel base (0 - 0.7 feet). Medium to coarse grained, gray sand with some gravel.	
1	HA	100	SW	1150	0.0	(1-3 Feet) Medium to coarse grained gray sand. Groundwater at 3.2 ft.	
2							
2							
3						BORING TERMINATED AT 3.2 FT	
4							
5							
6							



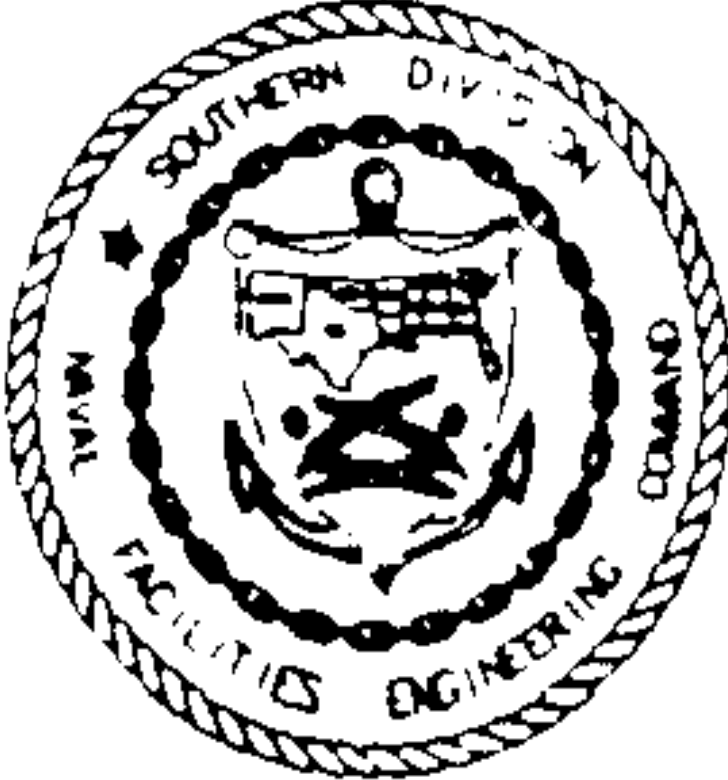
REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.

Site 38  
Boring 38S31


DATE: 10/15/94

DWG NAME: 38S31



DATE OF BORING: 12/02/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPL. No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger	
						BG (Background) organic vapor concentration = 0.0 ppm	
						Ground cover is 10 inches concrete	
1	HA	100	SW	0910	0.0	(0-1 Feet) Ground cover 2 inches of asphalt over reinforced concrete gravel base (0 - 1.3 feet). Medium to coarse grained, gray sand with gravel.	
1	HA	100	SW	0915	0.0	(1-3 Feet) Medium to coarse grained gray sand.	
2							
2							
3	HA	100	SW	0930	0.0	(3-5 Feet) Medium to coarse grained gray sand. Groundwater at 4.8 ft.	
4							
5						BORING TERMINATED AT 5.2 FT	
6							
 <div>REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.</div>						Site 38 Boring 38S32	
						DATE 11/10/94	
						DWG NAME 38S32	

DATE OF BORING: 12/07/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover is 10 inches concrete	
1	HA	100	SW	1250	0.0	(0-1 Feet) Ground cover reinforced concrete gravel base (0 - 0.8 feet). Medium to coarse grained, gray sand.	
1	HA	100	SW	1305	0.0	(1-3 Feet) Medium to coarse grained gray sand. Groundwater at 3.8 ft.	
2							
2							
3						BORING TERMINATED AT 3.3 FT	
4							
5							
6							




REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.


Site 38  
Boring 38S33

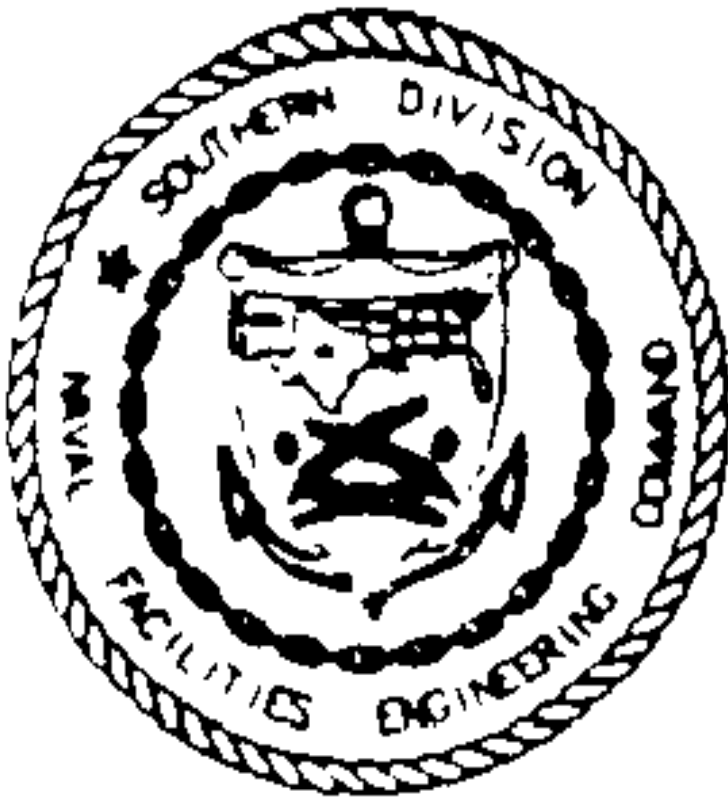
DATE 11/15/94

DWG NAME 38S33

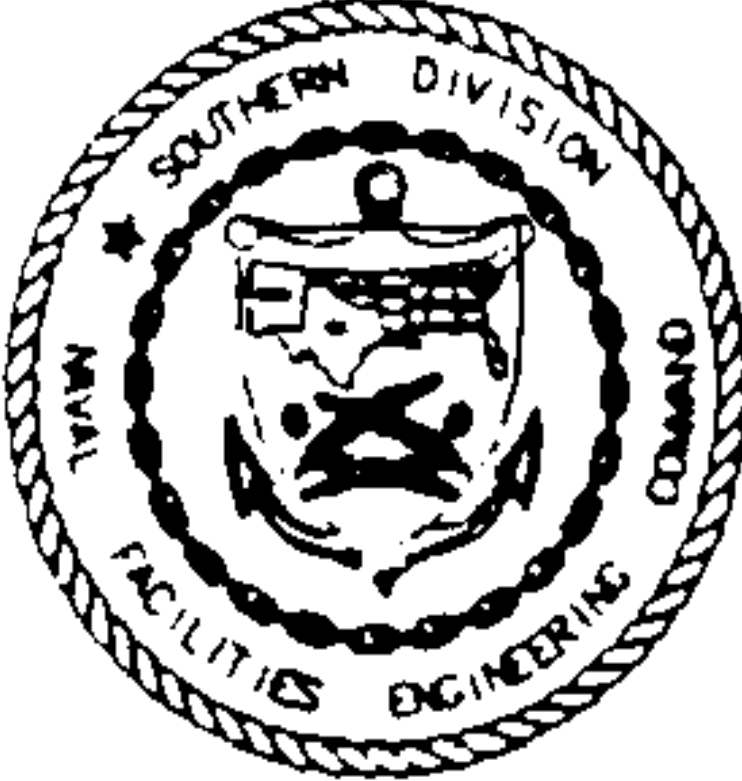
DATE OF BORING: 12/07/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMP. No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger	
						BG (Background) organic vapor concentration = 0.0 ppm	
						Ground cover is 10 inches concrete	
1	HA	100	SW	1335	0.0	(0-1 Feet) Ground cover 3 inches of asphalt. Medium to coarse grained, gray sand.	
1	HA	100	SW	1345	0.0	(1-3 Feet) Medium to coarse grained gray sand. Groundwater at 4.3 ft.	
2							
2							
3						BORING TERMINATED AT 4.3 FT	
4							
5							
6							
 <div>REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.</div>						Site 38 Boring 38S34	
						DATE: 11/15/94	
						DWG NAME: 38S34	



DATE OF BORING: 12/08/93							DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover is Grass.		
1	HA	100	SW	1300	0.0	(0-1 Feet) Medium to fine grained gray to white sand.		
1	HA	100	SW	1305	0.0	(1-3 Feet) Medium to coarse grained gray sand. Groundwater at 3.9 ft.		
2								
2								
3						BORING TERMINATED AT 4.3 FT		
4								
5								
6								
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.		
						Site 38 Boring 38S35		
						DATE: 11/15/94	DWG NAME 38S35	


DATE OF BORING: 12/08/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMP. No.	DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover is 2 inches of asphalt
1		HA	100	SW	1330	0.0	(0-1 Feet) Medium to fine grained gray to white sand.
1		HA	100	SW	1345	0.0	(1-3 Feet) Medium to coarse grained gray sand. Groundwater at 4.1 ft.
2							
2							
3							BORING TERMINATED AT 4.3 FT
4							
5							
6							
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S36	
						DATE 11/15/94	DWG NAME: 38S36

DATE OF BORING: 12/08/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type HA = hand auger BG (Background) organic vapor concentration = 0.0 ppm Ground cover is grass.	
1	HA	100	SW	1410	0.0	(0-1 Feet) Medium to fine grained gray to white sand.	
1	HA	100	SW	1420	0.0	(1-3 Feet) Medium to coarse grained gray sand. Groundwater at 3.1 ft.	
2							
3						BORING TERMINATED AT 3.1 FT	
4							
5							
6							

	REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	Site 38 Boring 38S37	
		DATE: 11/15/94	DWG NAME: 38S37



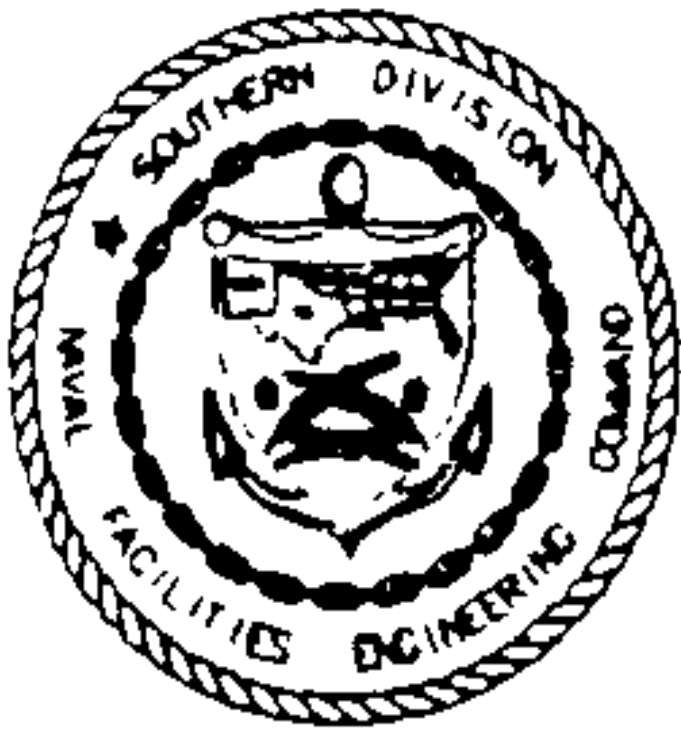
DATE OF BORING: 11/16/93						DESCRIPTION OF SUBSURFACE	
SAMPLING No.	DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	
							Sample type SS = splitspoon BG (Background) organic vapor concentration = 0.0 ppm Ground cover is 4 inches of asphalt
1		SS	58	SW	1115	BG	(0-2 feet) Medium grained gray sand.
		SS	42	SM	1120	BG	(2-4 feet) Medium to fine grained gray sand with some silt and clay.
2		SS	53	SW	1135	5.6	(4-6 feet) Groundwater at approx. 5.3 ft. Medium to fine grained gray sand. Slight odor, PID reading 5.6 just above groundwater.
3	5						
							Cuttings - Medium to fine grained white sand.
	10						
	15						
	20						Stopped at 20 feet at 1530, will complete boring tomorrow. Resumed drilling 111793 at 0640.
4		SS	33	SM	0802	0.2	(20-22) Light brown silty sand (20.0-20.1). Dark brown to black fine sand (20.1-20.4). Gray medium grained sand (20.4-20.6).
	25						
6		SS	75	SW	0820	0.0	(25-27 feet) Medium to fine grained, light gray sand with some dark gray zones with minor amounts of silt.
	30						
6		SS	100	SW	0836	0.0	(30-32 feet) Gray, medium to fine grained sand. Had to flush augers to retrieve sample.
	35						
7		SS	58	SW	0848	0.0	(35-37 feet) Dark brownish-gray, medium to fine grained sand with a slight sulfur odor.
	40						
8		SS	100	CL	0900	0.0	(40-42 feet) Dark green clay with little silt.
	45						Boring Terminated at 40 Feet. Monitoring well 38G108 installed approximately 37 ft.




REMEDIAL INVESTIGATION  
NAS PENSACOLA  
PENSACOLA, FL.

Site 38  
Boring 38S41

DATE: 10/09/94      DWG NAME: 38C4

DATE OF BORING: 11/18/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	USCS class	TIME	VAPOR READINGS	Sampler type SS = splitspoon	
						BG (Background) organic vapor concentration = 0.0 ppm	
						Ground cover 12 inches of concrete.	
1	SS	88	SW	0942	73	(0-2 Feet) Concrete (0- .06) Medium to fine grained with some gravel and brick.	
2	SS	100	SW	0946	BG	(2-4 Feet) Medium to coarse grained gray sand.	
3	SS	100	SW	0953	BG	(4-6 Feet) Medium to coarse grained gray sand. Groundwater at 5 7 feet.	
5							
10							
15						Monitoring well 38GS09 set at approximately 13 feet.	
20						BORING TERMINATED AT 13 FT	
25							
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S42	
						DATE: 10/09/94	DWG NAME: 38S42

DATE OF BORING: 11/17/93						DESCRIPTION OF SUBSURFACE MATERIALS	
SAMPLING No. & DEPTH (FEET)	SAMPLE TYPE	% RECOVERY	BLOWS/FT.	TIME	VAPOR READINGS	BG (BACKGROUND) = 0.0 ppm	
5						(0-6 feet) Samples for this interval were collected at boring 38S42 (monitoring well 38GS09) co-located with this boring.	
						Cuttings - Surface asphalt, clay base approximately 8 inches thick. Medium to fine grained sand with some small gravel.	
10							
15						Cuttings - Medium to fine grained white sand.	
20	SS	42	SW	1523	0.0	(20-22) Light gray to white, medium to fine grained sand. Dark brown to black fine sand (20.8-20.9).	
25	SS	46	SW	1543	0.0	(25-27 feet) Medium to fine grained, light gray to white sand.	
30	SS	83	SW	1610	0.0	(30-32 feet) Gray, medium to fine grained sand with some silt. Had to flush augers to retrieve sample.	
35	SS	100	push	1622	0.0	(33-35 feet) Silt and clay with moderate amounts of shell fragments and little sand.	
	SS	80	push	1640	0.0	(35-37 feet) Dark green clay with little silt.	
						Boring Terminated at 35 Feet.	
						Monitoring well 38GI09 installed approximately 32 ft.	
40							
45							
						REMEDIAL INVESTIGATION NAS PENSACOLA PENSACOLA, FL.	
						Site 38 Boring 38S43	
						DATE: 10/03/94	DWG NAME: 38S43



## **Appendix F**

### **Soil Properties**

#### **F.1 Shelby Tube Data**

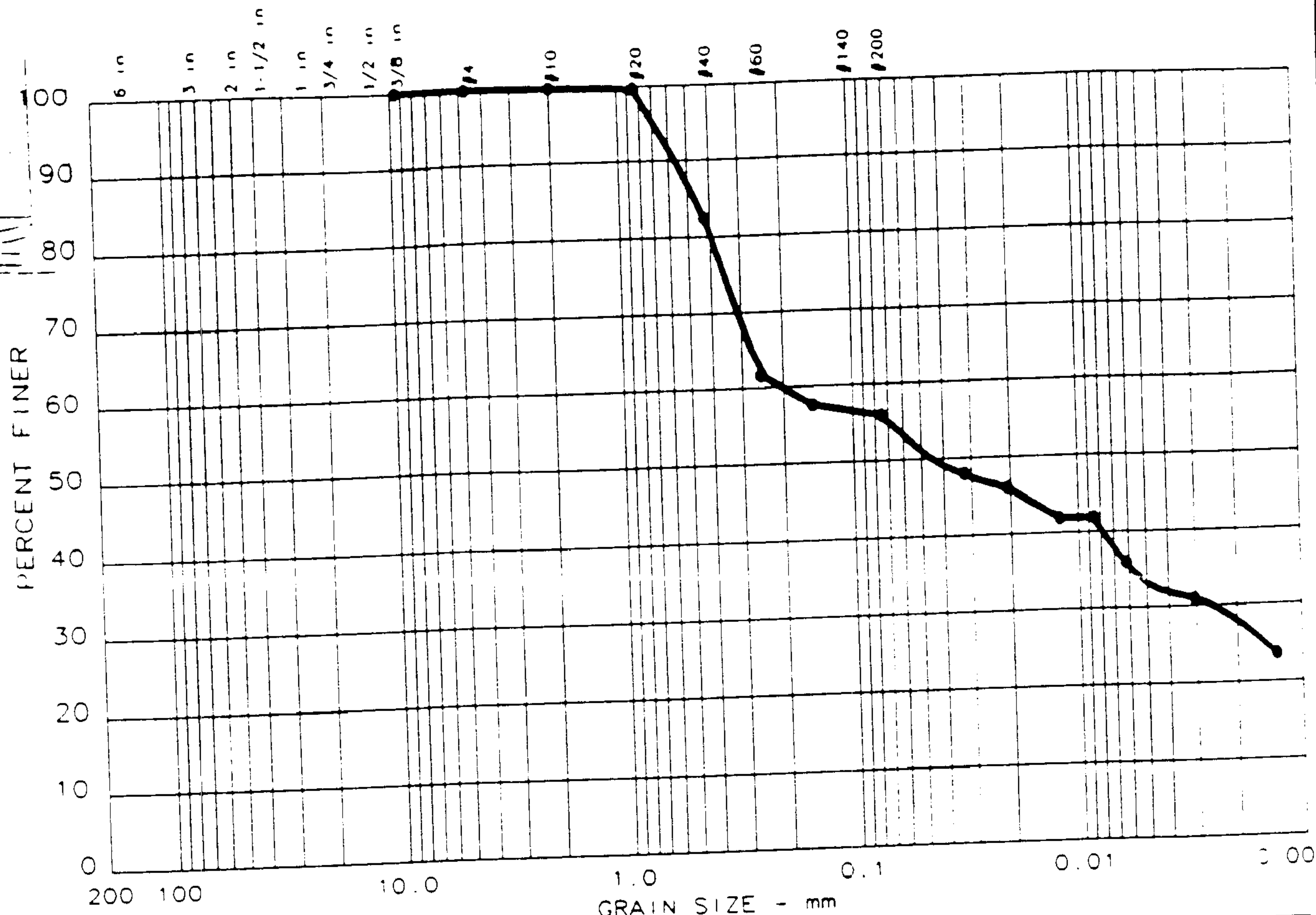
#### **F.2 Soil Chemistry Analytical Data**

**Appendix F**  
**Section F.1**

**Shelby Tube Data**

# PARTICLE SIZE DISTRIBUTION TEST REPORT

OCT 18 1993



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	P
0.0	0.0	44.0	22.8	33.2	(CL)	-	-

SIEVE inches size	PERCENT FINER
0.375	100.0
GRAIN SIZE	
D <sub>60</sub>	0.20
D <sub>30</sub>	0.003
D <sub>10</sub>	
COEFFICIENTS	
C <sub>c</sub>	
C <sub>u</sub>	

SIEVE number size	PERCENT FINER
4	100.0
10	100.0
20	99.7
40	82.4
60	61.6
100	57.6
200	56.0

Sample Information  
 • 3850981  
 MED CO-FINE SANDY LEAN CLAY

Remarks:  
 CLIENT:  
 ENSAFE, ALLEN AND  
 HOSHAL

**THOMPSON  
ENGINEERING**

Project No.: P93090  
 Project: LABORATORY ANALYSES  
 Date: 09/21/93

Data Sheet No. 1

0000001



# GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 19

Date: 09/21/93

Project No.: P93090

Project: LABORATORY ANALYSES

## Sample Data

Location of Sample: 38509B1

Sample Description 1: MEDIUM-FINE SANDY LEAN

Sample Description 2: CLAY

USCS Class: (CL) Liquid limit: - - - Plasticity index: - - -

## Notes

Remarks: CLIENT: ENSAFE, ALLEN AND  
HOSHALL

Data Sheet No.: 1

## Mechanical Analysis Data

	Initial	After wash
Dry sample and tare=	50.00	22.01
Tare =	0.00	0.00
Dry sample weight =	50.00	22.01
Minus #200 from wash=	56.0 %	
Tare for cumulative weight retained=	0	

Sieve	Cumul. Wt. retained	Percent finer
0.375 inches	0.00	100.0
# 4	0.00	100.0
# 10	0.01	100.0
# 20	0.15	99.7
# 40	8.78	82.4
# 60	19.20	61.6
# 100	21.21	57.6
# 200	22.01	56.0

## Hydrometer Analysis Data

Separation sieve is number 10  
Percent -# 10 based on complete sample= 100.0  
Weight of hydrometer sample: 50  
Calculated biased weight= 50.01  
Automatic temperature correction  
Composite correction at 20 deg C =-6.5

Meniscus correction only= 1  
Specific gravity of solids= 2.599  
Specific gravity correction factor= 1.012

0000002

Hydrometer type: 152H      Effective depth  $L = 16.294964 - 0.164 \times R_m$

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
2.0	21.0	30.0	23.7	0.0137	31.0	11.2	0.0324	47.9
5.0	21.0	29.0	22.7	0.0137	30.0	11.4	0.0206	45.9
15.0	21.1	27.0	20.7	0.0137	28.0	11.7	0.0121	41.9
30.0	21.1	27.0	20.7	0.0137	28.0	11.7	0.0085	41.9
60.0	21.2	24.0	17.7	0.0137	25.0	12.2	0.0062	35.9
250.0	21.6	21.5	15.3	0.0136	22.5	12.6	0.0031	31.0
1440.0	20.9	18.0	11.7	0.0137	19.0	13.2	0.0013	23.6

Fractional Components

Gravel/Sand based on #4 sieve  
Sand/Fines based on #200 sieve  
% + 3 in. = 0.0      % GRAVEL = 0.0      % SAND = 44.0  
% SILT = 22.8      % CLAY = 33.2

D85= 0.46    D60= 0.202    D50= 0.045  
D30= 0.0025

*Handwritten signature*

# Thompson Engineering

SEPTEMBER 21, 1990

REPORT #: 2  
JOB #: P93090

CLIENT: UNDAFEVALLEN AND HOSBELL  
PROJECT: LABORATORY ANALYSES

REPORT OF: HYDRAULIC CONDUCTIVITY OF GRAVELLY SAND SOILS USING A FIBRE WALL  
PERMEAMETER ASTM D-1434

SAMPLE IDENTIFICATION: 38509B

DATES		TECHNICIAN	
SAMPLED: 08/01/90		SAMPLED: CLIENT	
TESTED: 09/20/90		TESTED: C. CRAIG	
*****			
INITIAL MOISTURE (%):...	53.90	WATER TEMP. (C):	22.00
FINAL MOISTURE (%):.....	52.89	HEAD (CM):	409.41
WET DENSITY (pcf):.....	105.17	SATURATION TIME (HR):	24.00
DRY DENSITY (pcf):.....	63.41	DEGREE OF SATURATION (%):	82.35
HEIGHT OF SAMPLE (cm):....	15.24	AREA (cm <sup>2</sup> ):	10.17
DIA. OF SAMPLE (cm):....	2.62	VOLUME (cm <sup>3</sup> ):	158.77
DRY SOIL WT. (G):.....	171.85	WET SOIL WT. (G):	264.47
VOLUME OF SOLIDS (cm <sup>3</sup> ):.	65.12	SPECIFIC GRAVITY:	2.65
POROSITY (%):.....	57.82	VOID RATIO (e):	1.37

U.S.C.E. CLASSIFICATION: MEDIUM-FINE SAND-LEAN CLAY (CL)

TIME INTERVAL (SECONDS)	TOTAL VOLUME OF WATER (ML)	VOLUME OF WATER OVER INTERVAL (ML)	PERMEABILITY (CM/SEC) @ 20 DEGREE C
198.51	8.60	8.60	1.342e-4
236.27	18.00	9.40	1.278e-4
244.40	17.20	8.20	1.209e-4
268.70	9.80	1.60	1.170e-4
269.75	19.00	9.40	1.167e-4
TOTAL	TOTAL		AVERAGE
508.51	19.00		1.167e-4

  
THOMPSON ENGINEERING TESTING, INC.  
MATERIALS ENGINEERING LABORATORY

Corporate Office: 3707 Cottage Hill Rd. • P.O. Box 9637 • Mobile, AL 36691 • 205-666-2443 Fax 205-666-6422

00000004



# Thompson Engineering

SEPTEMBER 21, 1995

REPORT #: 3  
JOB #: 10000

CLIENT: ENOAH ALLEN AND HOSNALL  
PROJECT: LABORATORY ANALYSIS

REPORT OF: SPECIFIC GRAVITY OF SOILS      ASTM D-854

SAMPLE IDENTIFICATION#: 38509B

PYCNOMETER #: 21

DATE: 09/18/95  
SAMPLED: 08/10/95  
TESTED: 09/18/95

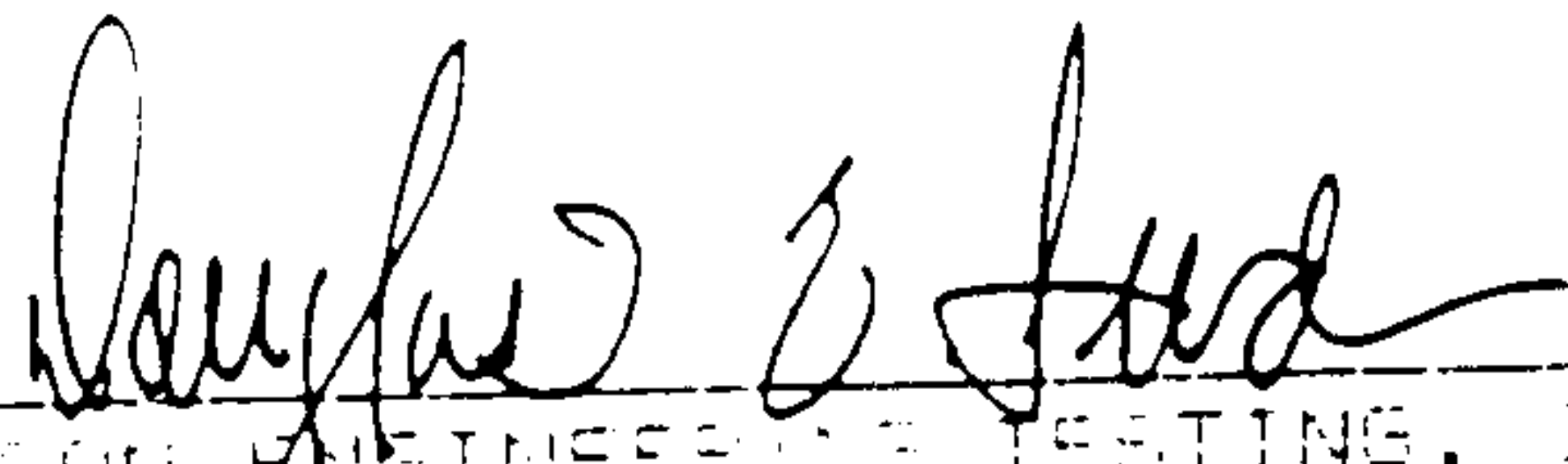
TECHNICIAN:  
SAMPLED: CLIENT  
TESTED: C. CRAIG

## LABORATORY RESULTS

(A) WEIGHT OF PYCNOMETER (G):.....	150.48
(B) WEIGHT OF PYCNOMETER AND SAMPLE (G):.....	307.27
(C) WEIGHT OF SAMPLE (G):.....	156.79
(D) WEIGHT OF PYCNOMETER AND WATER (G):.....	378.80
(E) TEMP. OF PYCNOMETER AND WATER (C):.....	23.00
(F) DENSITY OF WATER (G/ML):.....	0.998207
(G) WEIGHT OF PYCNOMETER, SAMPLE AND WATER (G):.....	738.86
(H) TEMP. OF PYCNOMETER, SAMPLE AND WATER (C):.....	23.80
(I) DENSITY OF WATER (G/ML):.....	0.997075

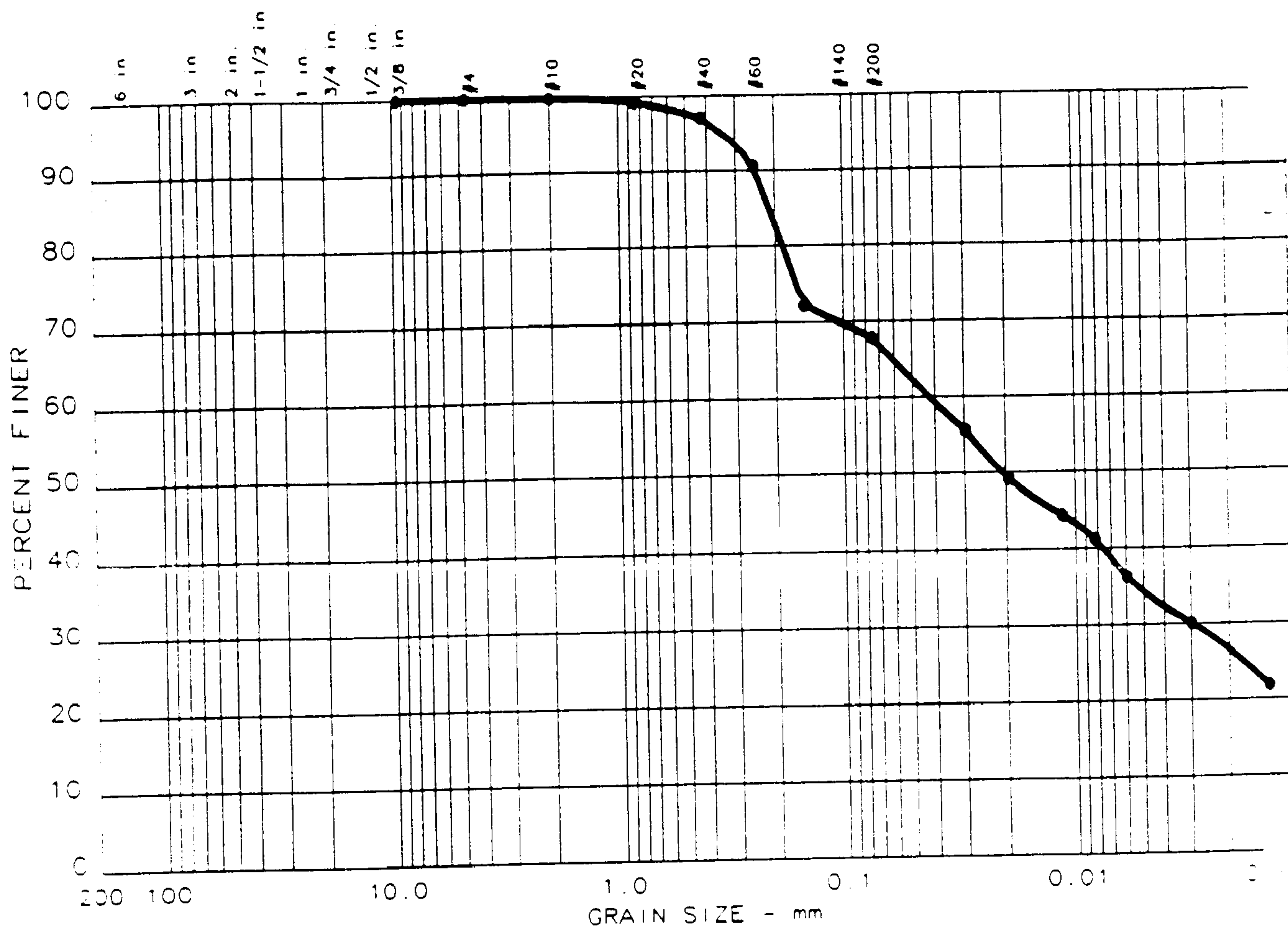
## CUMULATIVE

(P) = (D)-(A) / (F)-(I).....	678.1621
(Q) = (E)-(F) / (H)-(I).....	757.2472
(R) = ((P)-(Q)) / (F)-(I).....	2.598955
SPECIFIC GRAVITY:.....	2.5991

  
THOMPSON ENGINEERING TESTING, INC.  
MATERIALS ENGINEERING LABORATORY



# PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	P
0.0	0.0	32.2	33.6	34.2	(CL)	---	---

SIEVE inches size	PERCENT FINER
0 375	100.0
<div>GRAIN SIZE</div>	
D <sub>60</sub>	0.003
D <sub>30</sub>	
D <sub>10</sub>	
<div>COEFFICIENTS</div>	
C <sub>c</sub>	
C <sub>u</sub>	

SIEVE number size	PERCENT FINER
4	100.0
10	99.8
20	99.2
40	97.1
60	90.6
100	72.2
200	67.8

Sample information:  
 • 38G109  
 LEAN CLAY, SOME FINE SAND

Remarks:  
 CLIENT: ENSAFE, ALLEN  
 AND HOSHAL

# GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 2

Date: 02/02/94  
 Subject No.: P93132  
 Project: PROJECT #: N0059C0030

## Sample Data

Location of Sample: 38GI09  
 Sample Description 1: LEAN CLAY, SOME FINE SAND  
 Sample Description 2:  
 USCS Class: (CL) Liquid limit: ---- Plasticity index: ----

## Notes

Remarks: CLIENT: ENSAFE, ALLEN AND HOSHALL

Data Sheet No.: 2

## Mechanical Analysis Data

	Initial	After wash
Dry sample and tare=	62.43	20.11
Tare =	0.00	0.00
Dry sample weight =	62.43	20.11
Minus #200 from wash=	67.8 %	
re for cumulative weight retained=	0	
Sieve	Cumul. Wt. retained	Percent finer
0.375 inches	0.00	100.0
# 4	0.00	100.0
# 10	0.11	99.8
# 20	0.47	99.2
# 40	1.82	97.1
# 60	5.88	90.6
# 100	17.36	72.2
# 200	20.11	67.8

## Hydrometer Analysis Data

Separation sieve is number 10  
 Percent -# 10 based on complete sample= 99.8  
 Weight of hydrometer sample: 62.43  
 Calculated biased weight= 62.54  
 Automatic temperature correction  
 Composite correction at 20 deg C =-6

Meniscus correction only= 0  
 Specific gravity of solids= 2.603  
 Specific gravity correction factor= 1.011

0000007



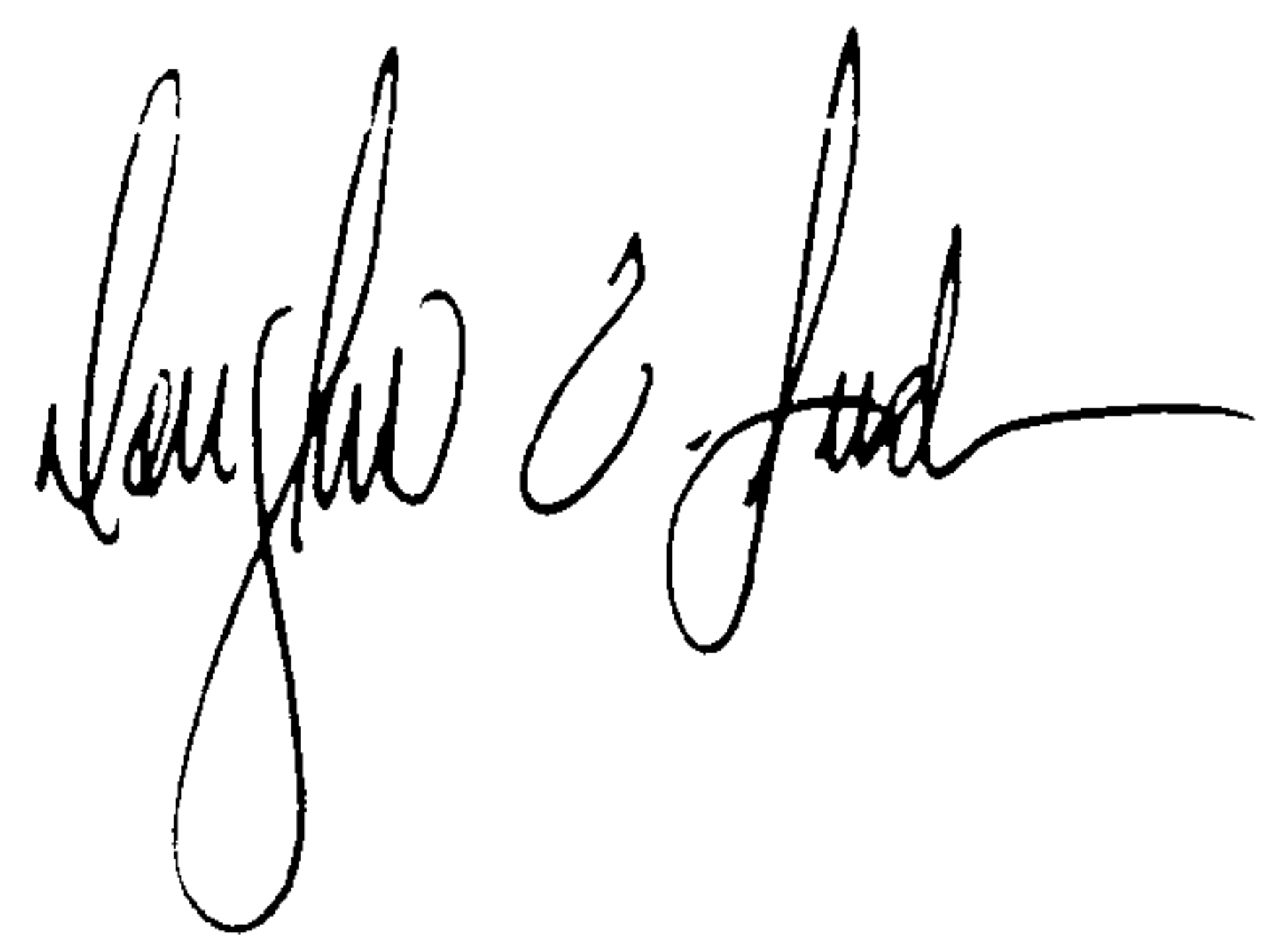
Hydrometer type: 152H      Effective depth  $L = 16.294964 - 0.164 \times R_m$

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	R <sub>m</sub>	Eff. depth	Diameter mm	Percent finer
2.0	22.0	40.0	34.4	0.0135	40.0	9.7	0.0298	55.6
5.0	22.0	36.0	30.4	0.0135	36.0	10.4	0.0195	49.2
15.0	22.1	33.0	27.4	0.0135	33.0	10.9	0.0115	44.3
30.0	22.2	31.0	25.5	0.0135	31.0	11.2	0.0082	41.2
60.0	22.2	28.0	22.5	0.0135	28.0	11.7	0.0060	36.3
250.0	22.8	24.0	18.6	0.0134	24.0	12.4	0.0030	30.1
1440.0	22.3	19.0	13.5	0.0135	19.0	13.2	0.0013	21.8

Fractional Components

Gravel/Sand based on #4 sieve  
Sand/Fines based on #200 sieve  
% + 3 in. = 0.0      % GRAVEL = 0.0      % SAND = 32.2  
% SILT = 33.6      % CLAY = 34.2

D85= 0.21    D60= 0.042    D50= 0.021  
D30= 0.0029



# Thompson Engineering

FEBRUARY 2, 1993

CLIENT: ENSAFE, ALLEN AND HOSHALL  
PROJECT: PROJECT #: N0059C0030

REPORT #:  
JOB #: F93102

REPORT OF: SPECIFIC GRAVITY OF SOILS      ASTM D-854

SAMPLE IDENTIFICATION#: 38G109

PYCNOMETER #: 2

DATES  
SAMPLED: 11/30/93  
TESTED: 01/20/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: B. HORN

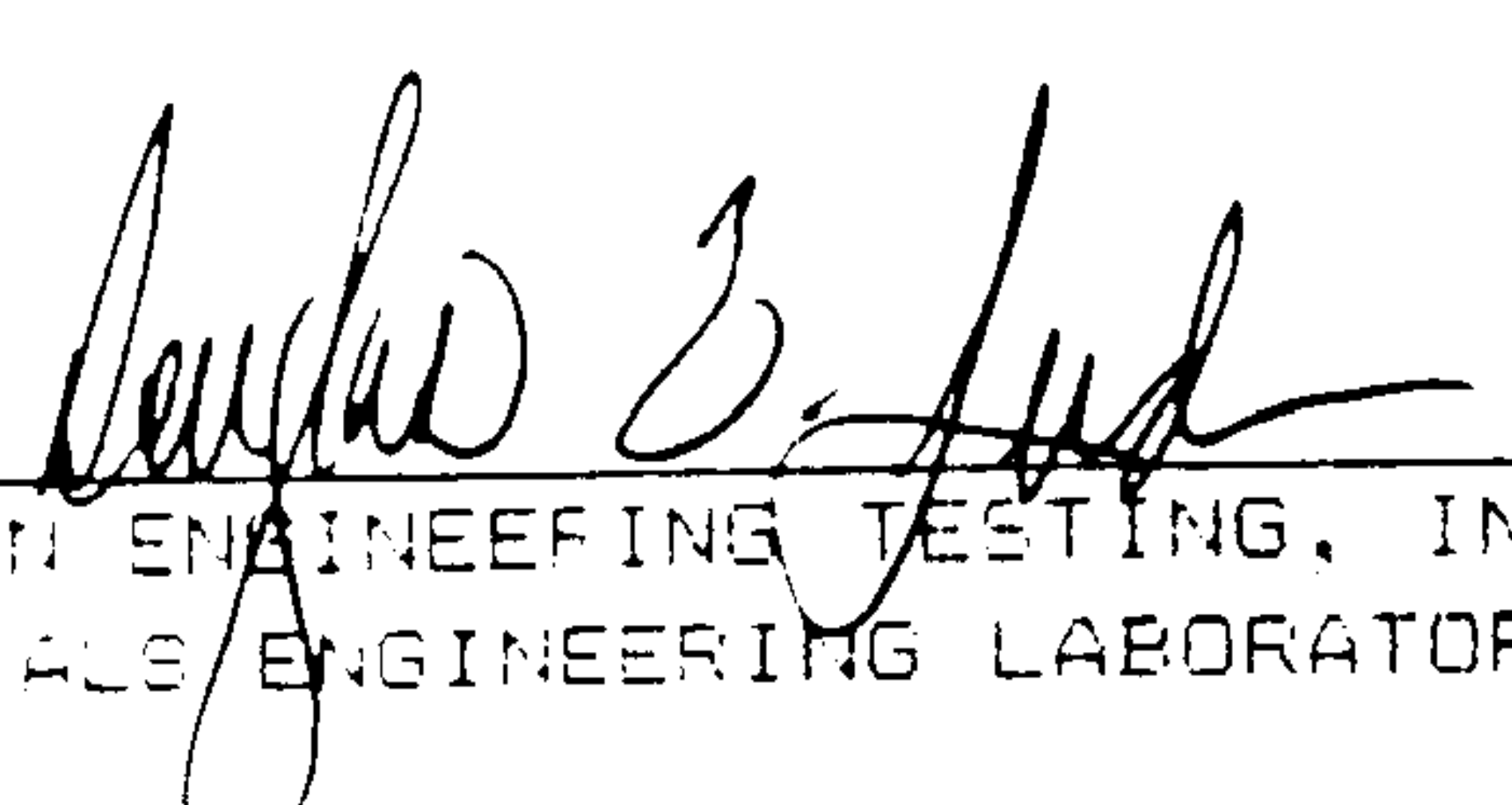
## LABORATORY RESULTS

(A) WEIGHT OF PYCNOMETER (G):	174.50
(B) WEIGHT OF PYCNOMETER AND SAMPLE (G):	265.49
(C) WEIGHT OF SAMPLE (G):	90.99
(D) WEIGHT OF PYCNOMETER AND WATER (G):	672.68
(E) TEMP. OF PYCNOMETER AND WATER (C):	23.00
(F) DENSITY OF WATER @ T1:	.997569
(G) WEIGHT OF PYCNOMETER, SAMPLE AND WATER (G):	728.91
(H) TEMP. OF PYCNOMETER, SAMPLE AND WATER (C):	22.00
(I) DENSITY OF WATER @ T2:	.997801

## COMPUTATIONS

(R) = (D-A)*F*.998234+A	673.0121
(S) = (G-B)*1+.998234+B	729.1111
(GS) = C/((D-B)-(S))*1.998234	2.603231

SPECIFIC GRAVITY: 2.603

  
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MATERIALS ENGINEERING LABORATORY



# Thompson Engineering

FEBRUARY 2, 1993

CLIENT: ENSAFE, ALLEN AND HOSHALL  
PROJECT: PROJECT #: NASF-CTO-58

JOB #: P93132

REPORT OF: HYDRAULIC CONDUCTIVITY OF GRANULAR SOILS USING A RIGID WALL  
PERMEAMETER ASTM D-2434

SAMPLE IDENTIFICATION: 386109

DATES  
SAMPLED: 11/30/93  
TESTED: 12/07/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: C. CRAIG

\*\*\*\*\*  
INITIAL MOISTURE (%):... 37.10 WATER TEMP.(c): 24.00  
FINAL MOISTURE (%):..... 57.70 HEAD (CM): 402.27  
WET DENSITY (pcf):..... 108.25 SATURATION TIME (HR): 24.00  
DRY DENSITY (pcf):..... 74.61 DEGREE OF SATURATION (%): 127.59  
HEIGHT OF SAMPLE (cm):.... 10.40 AREA (cm2): 41.49  
DIA. OF SAMPLE (cm):..... 7.27 VOLUME (cm3): 431.49  
DRY SOIL WT. (G):..... 515.89 WET SOIL WT. (G): 748.54  
VOLUME OF SOLIDS (cm3):.. 198.19 SPECIFIC GRAVITY: 2.60  
POROSITY (%):..... 54.07 VOID RATIO (%): 1.18

SOIL CLASSIFICATION: SILTY FINE SAND (SM)

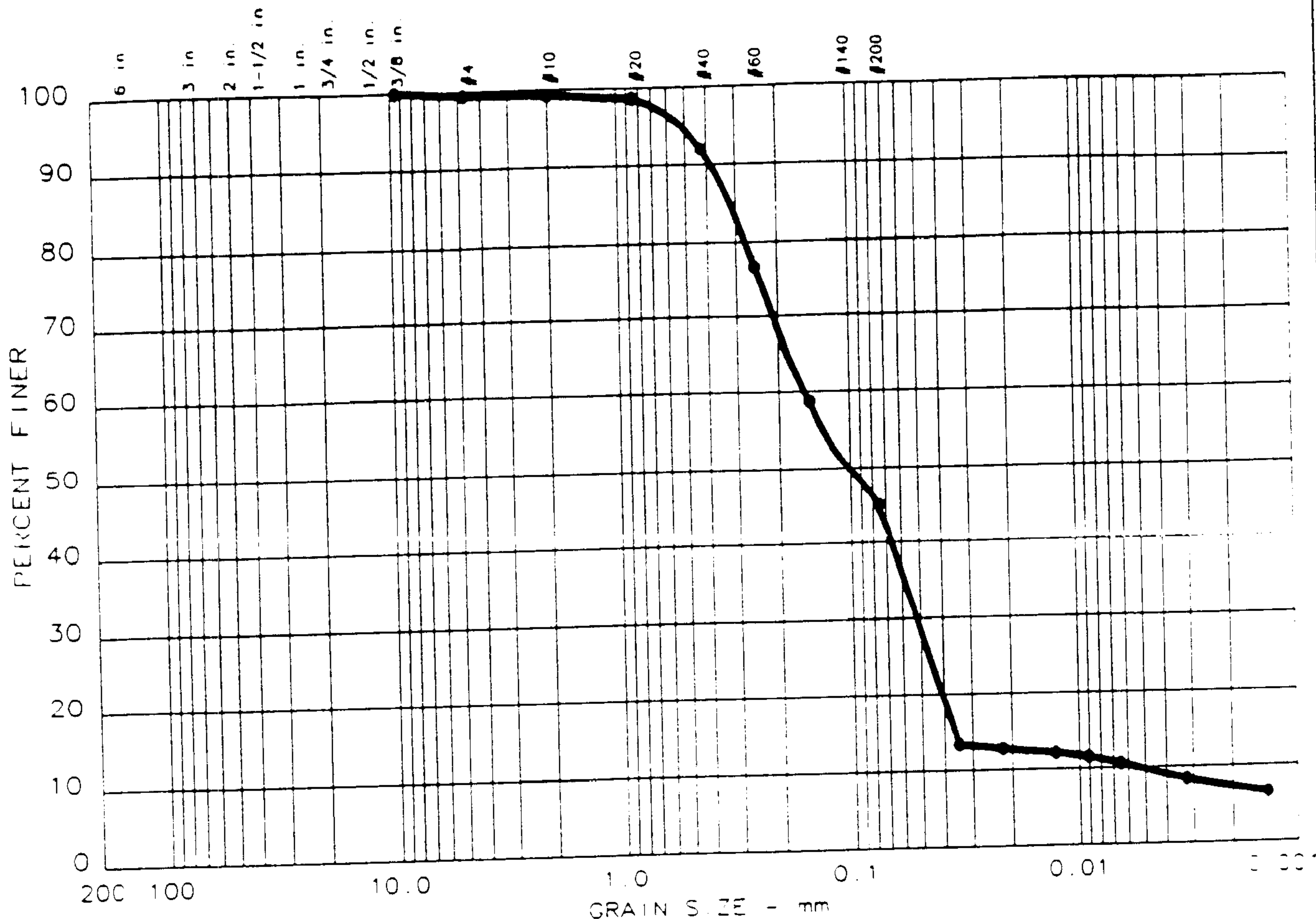
\*\*\*\*\*  
TIME TOTAL VOLUME VOLUME OF WATER PERMEABILITY  
INTERVAL OF WATER OVER INTERVAL (CM/SEC)  
(SECONDS) (ML) (ML) @ 20 DEGREE c  
-----  
118.00 1000.00 1000.00 4.795e-3  
118.00 2000.00 1000.00 4.795e-3  
118.00 3000.00 1000.00 4.795e-3  
  
118.00 1000.00 1000.00 4.784e-3  
118.00 2000.00 1000.00 4.784e-3  
  
TOTAL TOTAL AVERAGE  
-----  
236 2000.00 4.784e-3

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# PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3'	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	P
0.0	0.5	54.6	35.2	9.7	(SM)	----	----

SIEVE inches size	PERCENT FINER		
0.375	100.0		
<div>GRAIN SIZE</div>			
D <sub>60</sub>	0.16		
D <sub>30</sub>	0.05		
D <sub>10</sub>	0.00		
<div>COEFFICIENTS</div>			
C <sub>c</sub>	3.14		
C <sub>u</sub>	28.7		

SIEVE number size	PERCENT FINER		
4	99.5		
10	99.3		
20	98.7		
40	92.2		
60	76.6		
100	58.7		
200	44.9		

Sample information:  
 • 38G107  
 SILTY FINE SAND

Remarks:  
 CLIENT: ENSAFE, ALLEN  
 AND HOSHAL

**THOMPSON  
ENGINEERING**

Project No.: P93132  
 Project PROJECT #: N0059C0030

Date 02/02/94

Data Sheet No. 1

0000011

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 1

Date: 02/02/94

Project No.: P93132

Project: PROJECT #: N0059C0030

Sample Data

Location of Sample: 38GI07

Sample Description 1: SILTY FINE SAND

Sample Description 2:

USCS Class: (SM) Liquid limit: ---- Plasticity index: ----

Notes

Remarks: CLIENT: ENSAFE, ALLEN AND HOSHALL

Data Sheet No.: 1

Mechanical Analysis Data

	Initial	After wash
Dry sample and tare=	166.34	91.69
Tare =	0.00	0.00
Dry sample weight =	166.34	91.69
Minus #200 from wash=	44.9 %	

Weight for cumulative weight retained= 0

Sieve	Cumul. Wt. retained	Percent finer
0.375 inches	0.00	100.0
# 4	0.88	99.5
# 10	1.16	99.3
# 20	2.13	98.7
# 40	13.03	92.2
# 60	38.87	76.6
# 100	68.78	58.7
# 200	91.69	44.9

Hydrometer Analysis Data

Separation sieve is number 10

Percent -# 10 based on complete sample= 99.3

Weight of hydrometer sample: 166.34

Calculated biased weight= 167.51

Automatic temperature correction

Composite correction at 20 deg C =-6

Meniscus correction only= 0

Specific gravity of solids= 2.468

Specific gravity correction factor= 1.047

0000012

Hydrometer type: 152H      Effective depth  $L = 16.294964 - 0.164 \times R_m$

Elapsed Time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
2.0	21.4	27.0	21.3	0.0142	27.0	11.9	0.0346	13.3
5.0	21.4	26.0	20.3	0.0142	26.0	12.0	0.0221	12.7
15.0	21.5	25.0	19.3	0.0142	25.0	12.2	0.0128	12.1
30.0	21.6	24.0	18.3	0.0142	24.0	12.4	0.0091	11.4
60.0	21.7	22.5	16.8	0.0142	22.5	12.6	0.0065	10.5
250.0	22.2	19.0	13.5	0.0141	19.0	13.2	0.0032	8.4
1440.0	22.2	16.0	10.5	0.0141	16.0	13.7	0.0014	6.5

Fractional Components

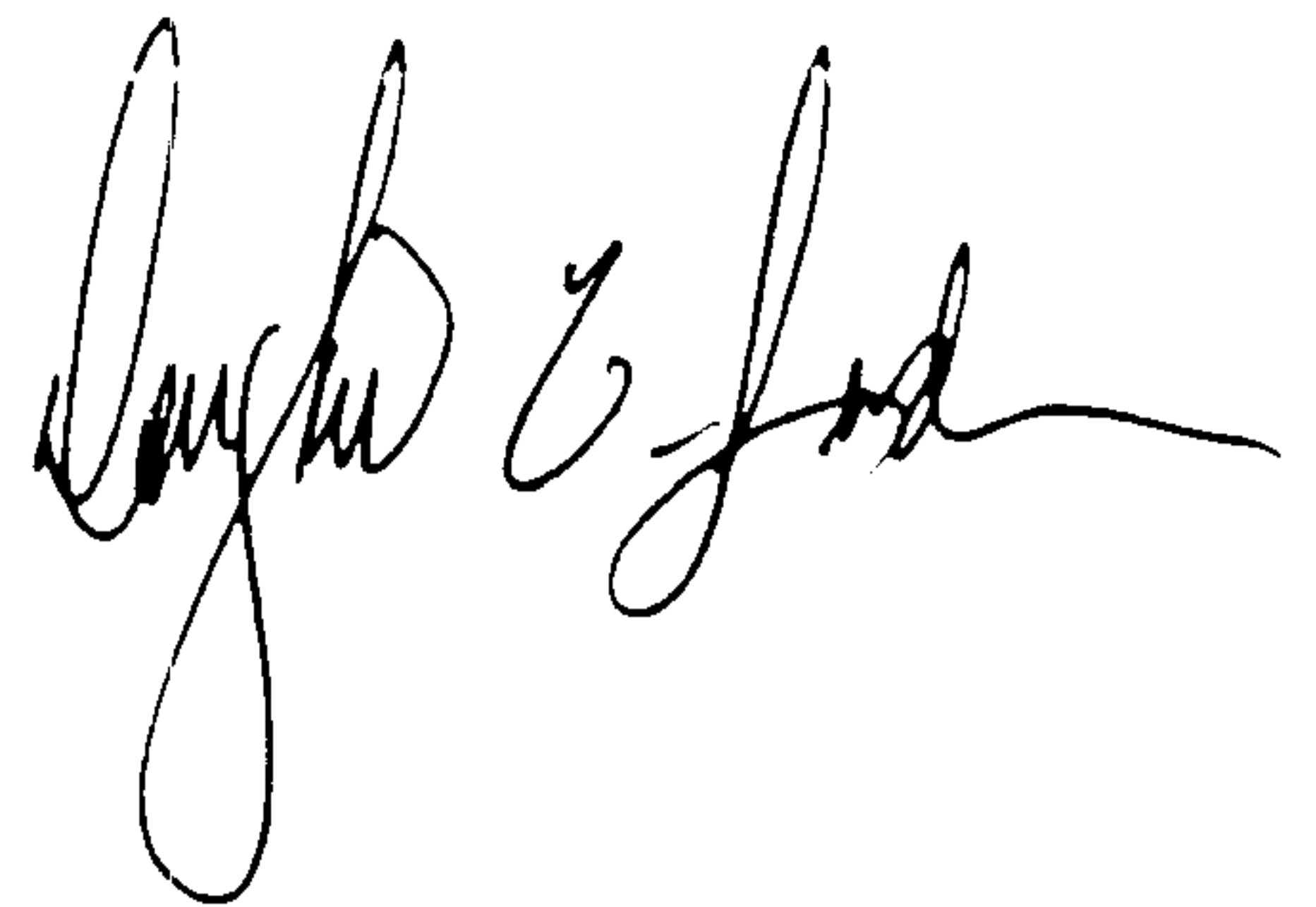
Gravel/Sand based on #4 sieve

Sand/Fines based on #200 sieve

% + 3 in. = 0.0      % GRAVEL = 0.5      % SAND = 54.6

% SILT = 35.2      % CLAY = 9.7

D85= 0.32    D60= 0.157    D50= 0.101  
D30= 0.0519    D15= 0.03610    D10= 0.00546  
Cc = 3.1441    Cu = 28.6748



0000013



# Thompson Engineering

FEBRUARY 2, 1993

CLIENT: ENSAFE, ALLEN AND HOSHAL  
PROJECT: PROJECT #: N0059C0030

REPORT #:  
JOB #: F93132

REPORT OF: SPECIFIC GRAVITY OF SOILS ASTM D-854

SAMPLE IDENTIFICATION#: 38GI07

PYCNOMETER #: 6A

DATES  
SAMPLED: 11/30/93  
TESTED: 01/20/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: B. HORN

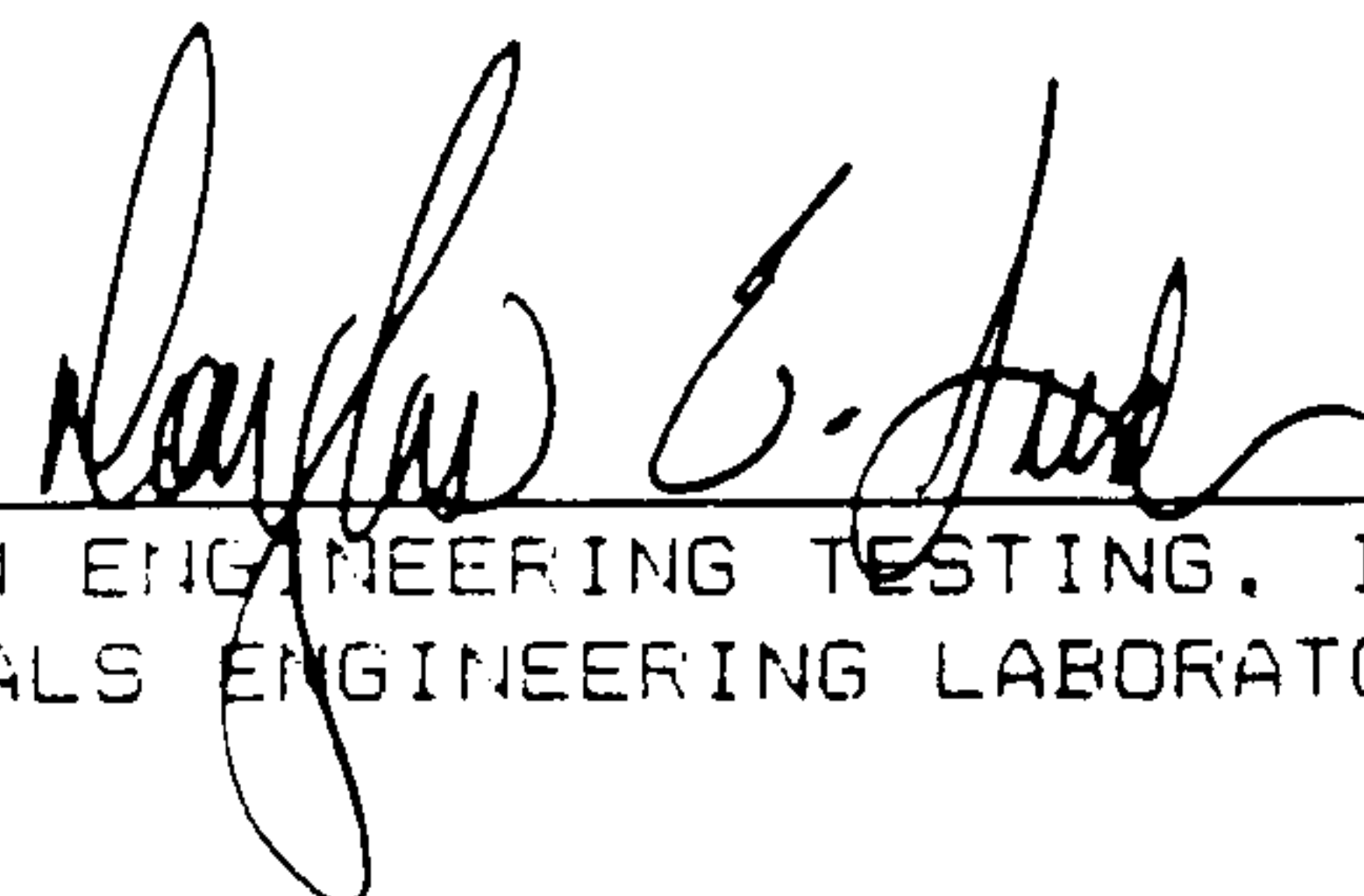
## LABORATORY RESULTS

(A) WEIGHT OF PYCNOMETER (G):.....	169.50
(B) WEIGHT OF PYCNOMETER AND SAMPLE (G):.....	254.47
(C) WEIGHT OF SAMPLE (G):.....	84.97
(D) WEIGHT OF PYCNOMETER AND WATER (G):.....	667.60
(E) TEMP. OF PYCNOMETER AND WATER (C):.....	24.00
(F) DENSITY OF WATER @ T1:.....	.997327
(G) WEIGHT OF PYCNOMETER, SAMPLE AND WATER (G):.....	718.35
(H) TEMP. OF PYCNOMETER, SAMPLE AND WATER (C):.....	23.00
(I) DENSITY OF WATER @ T2:.....	.997569

## COMPUTATIONS

(R) = (D-A)/F*.998234+A.....	668.0530
(S) = (G-B)/I*.998234+B.....	718.6592
(GS) = C/((C+R)-S)*.998234.....	2.468297

SPECIFIC GRAVITY:..... 2.468

  
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# Thompson Engineering

FEBRUARY 2, 1993

CLIENT: ENSAFE, ALLEN AND HOSHAL  
PROJECT: PROJECT #: N0059C0030

JOB #: F93132

REPORT OF: HYDRAULIC CONDUCTIVITY OF COHESIVE SOILS USING A FLEXIBLE  
WALL PERMEAMETER ASTM D-5084

SAMPLE LOCATION: 386107

DATES  
SAMPLED: 11/30/93  
TESTED: 12/07/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: C. CRAIG

\*\*\*\*\*  
INITIAL MOISTURE (%):... 89.32 WATER TEMP.(c): 23.80  
FINAL MOISTURE (%):..... 90.88 HEAD (CM): 4191.89  
WET DENSITY (pcf):..... 90.02 SATURATION TIME (HR): 24.00  
DRY DENSITY (pcf):..... 47.55 DEGREE OF SATURATION (%): 93.87  
HEIGHT OF SAMPLE (cm)..... 9.21 AREA (cm2): 40.85  
DIA. OF SAMPLE (cm):..... 7.21 VOLUME (cm3): 375.25  
DRY SOIL WT. (G):..... 273.96 WET SOIL WT. (G): 540.77  
VOLUME OF SOLIDS (cm3):.. 111.00 SPECIFIC GRAVITY: 2.47  
POROSITY (%):..... 70.50 VOID RATIO (%): 2.39

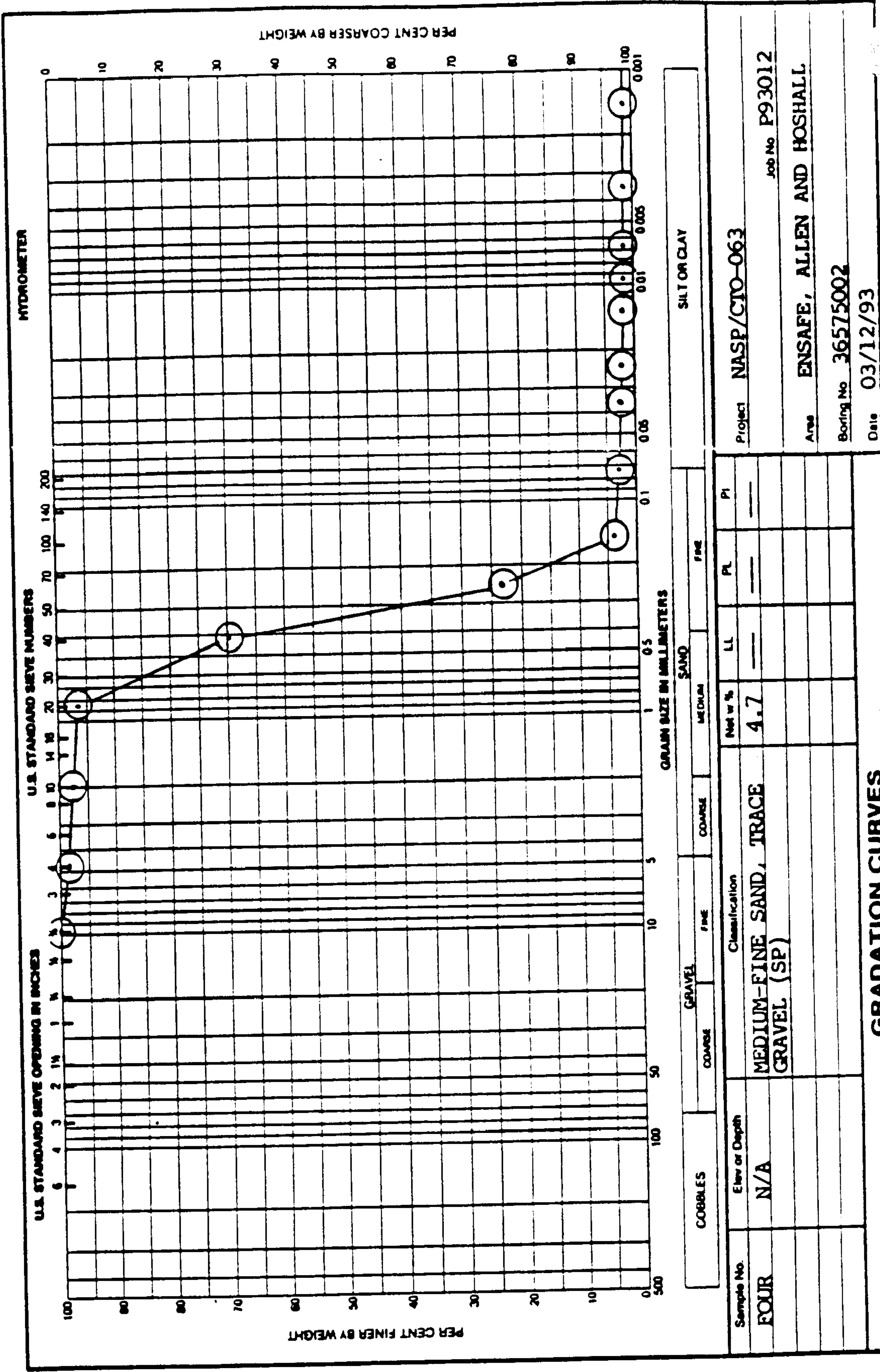
U.S.C.S. CLASSIFICATION: LEAN CLAY (CL)

\*\*\*\*\*

TIME INTERVAL (SECONDS)	TOTAL VOLUME OF WATER (ML)	VOLUME OF WATER OVER INTERVAL (ML)	PERMEABILITY (CM/SEC)
23700	6.00	6.00	1.239e-8
28380	13.20	7.20	1.242e-8
33060	18.40	5.20	7.897e-9
33000	6.90	6.90	1.011e-8
27660	12.90	6.00	1.062e-8
TOTAL	TOTAL		AVERAGE
60660	12.90		1.036e-8

*Wayne E. Ford*  
THOMPSON ENGINEERING TESTING, INC.  
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CHEMICAL, MATERIALS AND GEOTECHNICAL  
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TELEPHONE 205/666-2443



MARCH 12, 1993

REPORT #: 10  
JOB #: F93012

CLIENT: ENSAFE/ALLEN & HOSKALL  
PROJECT: NASP/CTO - 063

REPORT OF: PARTICLE SIZE ANALYSIS ASTM D-422

SAMPLE IDENTIFICATION: 36575C02 DEPTH (FT): N/A  
SPECIFIC GRAVITY OF SOLIDS (g/ml): 2.65

DATES  
SAMPLED: 02/17/93  
TESTED: 03/10/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: L. BAXLEY

I. .... GRAIN SIZE ANALYSIS

U.S. STANDARD SIEVE SIZE	U.S. SIEVE SIZE (mm)	WEIGHT RETAINED (GRAMS)	PERCENT COARSER (%)	PERCENT FINER (%)
3/8"	9.50	.00	.00	100.00
NO. 4	4.75	1.38	.87	99.13
NO. 10	2.00	2.84	1.79	98.21
NO. 20	.850	5.14	3.24	96.76
NO. 40	.425	47.74	30.09	69.91
NO. 60	.250	122.60	77.26	22.74
NO. 100	.149	151.76	95.64	4.36
NO. 200	.075	154.34	97.26	2.74

TOTAL WEIGHT (GRAMS): ..... 158.68

II. .... HYDROMETER ANALYSIS

ELAPSED TIME (MINUTES)	TEMPERATURE DEGREE (CELCIUS)	HYDROMETER READING CORRECTION	HYDROMETER READING (g/l)	PARTICLE SIZE (mm)	PERCENT FINE (%)
2	23.50	6.00	10.00	.0356424	2.5
5	23.50	6.00	9.80	.0225674	2.3
15	23.50	6.00	9.20	.0130729	2.0
30	23.40	6.00	8.00	.0093161	1.2
60	23.20	6.00	7.90	.0066063	1.2
250	22.50	6.00	7.80	.0032641	1.1
1440	22.00	6.00	7.70	.0013685	1.0

U.S.C.S. SOIL CLASSIFICATION: MEDIUM-FINE SAND, TRACE GRAVEL (SF)

*Stephen Z. Such*  
THOMPSON ENGINEERING TESTING, INC.  
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MARCH 12, 1993

REPORT #: 12  
JOB #: F93012

CLIENT: ENSAFE/ALLEN & HOSHALL  
PROJECT: NASF/CTO-063

REPORT OF: HYDRAULIC CONDUCTIVITY OF GRANULAR SOILS USING A RIGID  
WALL PERMEAMETER ASTM D-2434

SAMPLE IDENTIFICATION: 36575C02

PERMEAMETER #: 7

DATES  
SAMPLED: 02/17/93  
TESTED: 03/05/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: L. BAXLEY

\*\*\*\*\*  
INITIAL MOISTURE (%):... 4.65  
FINAL MOISTURE (%):..... 27.46  
WET DENSITY (pcf):..... 103.03  
DRY DENSITY (pcf):..... 95.87  
HEIGHT OF SAMPLE (cm):.... 10.28  
DIA. OF SAMPLE (cm):..... 7.31  
DRY SOIL WT. (G):..... 662.45  
VOLUME OF SOLIDS (cm<sup>3</sup>):. 249.98  
POROSITY (%):..... 42.02  
WATER TEMP. (C): 20.50  
HEAD (CM): 105.09  
SATURATION TIME (HR): 1.17  
DEGREE OF SATURATION (%): 100.40  
AREA (cm<sup>2</sup>): 41.93  
VOLUME (cm<sup>3</sup>): 431.16  
WET SOIL WT. (G): 711.95  
SPECIFIC GRAVITY: 2.65  
VOID RATIO:..... .72

UNIFIED SOIL CLASSIFICATION: BROWN MEDIUM- FINE SAND (SF)

\*\*\*\*\*

TIME INTERVAL (SECONDS)	TOTAL VOLUME OF WATER (ML)	VOLUME OF WATER OVER INTERVAL (ML)	PERMEABILITY (CM/SEC) @ 20 C
114.06	1000.00	1000.00	2.021e-2
115.13	2000.00	1000.00	2.002e-2
117.98	3000.00	1000.00	1.954e-2
119.6	1000.00	1000.00	1.927e-2
118.75	2000.00	1000.00	1.941e-2
TOTAL	TOTAL		AVERAGE
238.35	2000.00		1.934e-2

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CHEMICAL, MATERIALS AND GEOTECHNICAL  
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MOBILE, ALABAMA 36609  
TELEPHONE 205/668-2443



MARCH 12, 1993

REPORT #: 11  
JOB #: P93012

CLIENT: ENSAFE/ALLEN & HOSHAL  
PROJECT: NASP/CTO - 063

REPORT OF: SPECIFIC GRAVITY OF SOLIDS      ASTM D-854-83

SAMPLE ID: 36575C02

PYCNO METER #: 6A

DATE: 02/17/93  
SAMPLED: 02/17/93  
TESTED: 03/09/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: L. BAXLEY

\*\*\*\*\*

LABORATORY RESULTS

(A) WEIGHT OF PYCNOMETER (G):	169.53
(B) WEIGHT OF PYCNOMETER AND SAMPLE (G):	254.31
(C) WEIGHT OF SAMPLE (G):	84.78
(D) WEIGHT OF PYCNOMETER AND WATER (G):	667.48
(E) TEMP. OF PYCNOMETER AND WATER (C):	23.00
(F) DENSITY OF WATER @ T1:	.997569
(G) WEIGHT OF PYCNOMETER, SAMPLE AND WATER (G):	720.33
(H) TEMP. OF PYCNOMETER, SAMPLE AND WATER (C):	23.00
(I) DENSITY OF WATER @ T2:	.997569

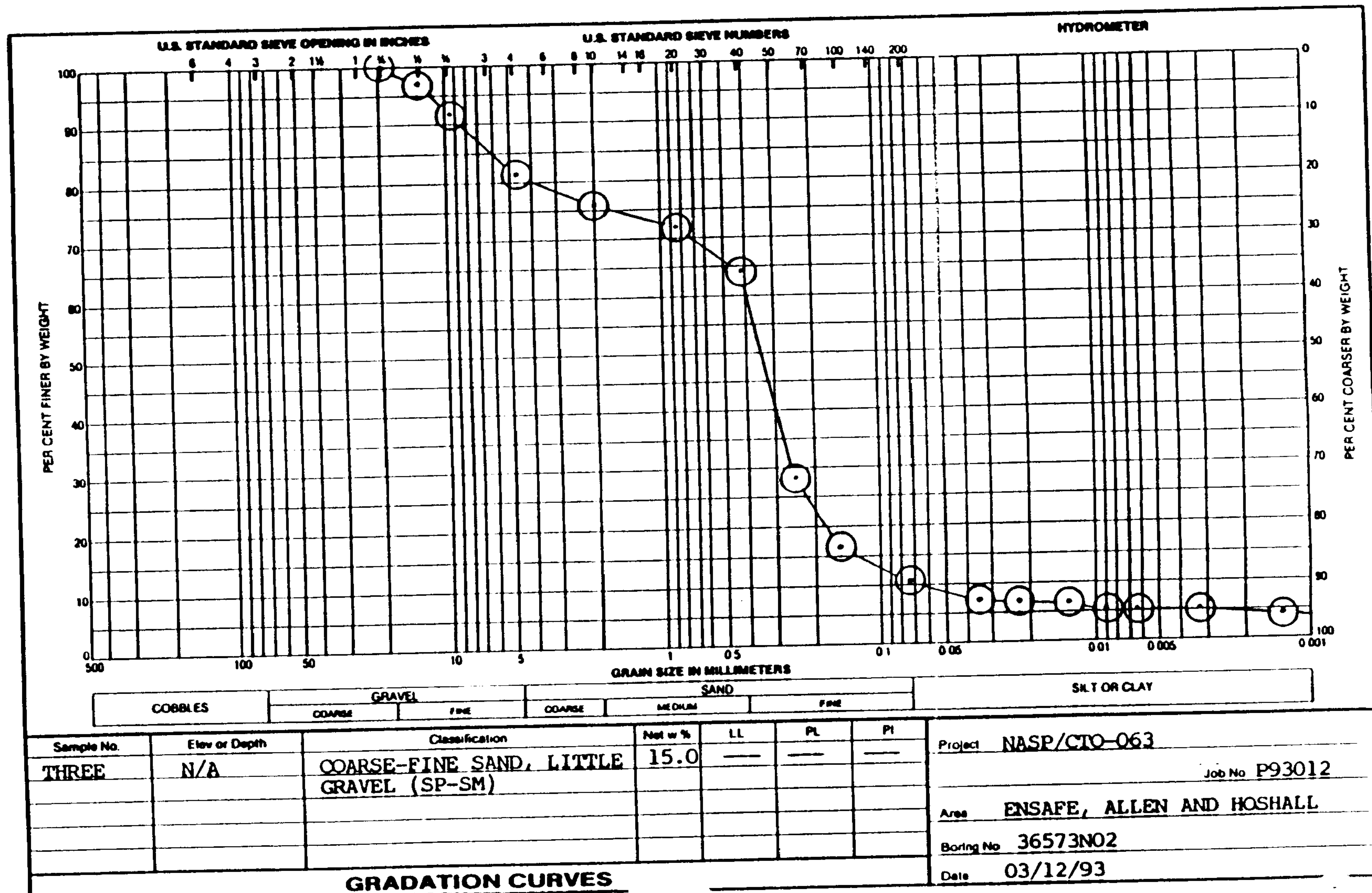
COMPUTATIONS

(R) = (D-A)/F*.998234+A	667.8119
(S) = (G-B)/I*.998234+B	720.6407
(GS) = C/(C+R)-S)*.998234	2.648728
SPECIFIC GRAVITY:	2.649

*L. Baxley*  
THOMPSON ENGINEERING TESTING, INC.  
MATERIALS ENGINEERING LABORATORY 0000019



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GRADATION CURVES



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CHEMICAL, MATERIALS AND GEOTECHNICAL  
LABORATORIES

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MOBILE, ALABAMA 36609  
TELEPHONE 205/666-2443



MARCH 12, 1993

REPORT #: 7  
JOB #: F93012

CLIENT: ENSAFE/ALLEN & HOSHAL  
PROJECT: NASP/CTO - 063

REPORT OF: PARTICLE SIZE ANALYSIS ASTM D-422

SAMPLE IDENTIFICATION: 36573N02  
SPECIFIC GRAVITY OF SOLIDS (g/ml): 2.65  
DEPTH (FT): N/A

DATES  
SAMPLED: 02/17/93  
TESTED: 03/10/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: L. BAXLEY

I. GRAIN SIZE ANALYSIS

U.S. STANDARD SIEVE SIZE	U.S. SIEVE SIZE (mm)	WEIGHT RETAINED (GRAMS)	PERCENT COARSER (%)	PERCENT FINER (%)
3/4"	19.00	.00	.00	100.00
1/2"	12.50	4.47	2.95	97.05
3/8"	9.50	13.07	8.61	91.39
NO. 4	4.75	29.36	19.35	80.65
NO. 10	2.00	36.62	24.15	75.87
NO. 20	.850	42.28	27.86	72.14
NO. 40	.425	69.08	45.52	54.48
NO. 60	.250	108.90	71.76	28.24
NO. 100	.149	126.96	83.66	16.34
NO. 200	.075	135.95	89.58	10.42

TOTAL WEIGHT (GRAMS): 151.76

II. HYDROMETER ANALYSIS

ELAPSED TIME (MINUTES)	TEMPERATURE DEGREE (CELCIUS)	HYDROMETER READING CORRECTION	HYDROMETER READING (g/l)	PARTICLE SIZE (mm)	PERCENT FINE (%)
2	23.50	6.00	17.00	.0342174	7.2
5	23.50	6.00	16.70	.0216804	7.0
15	23.50	6.00	15.20	.0126303	6.0
30	23.40	6.00	13.90	.0090101	5.2
60	23.20	6.00	13.80	.0063896	5.0
250	22.50	6.00	13.70	.0031572	5.0
1440	22.00	6.00	13.00	.0015283	4.0

U.S.C.S. SOIL CLASSIFICATION: COARSE-FINE SAND, LITTLE GRAVEL (SP-SM)

*Stephen E. Arch*  
THOMPSON ENGINEERING TESTING, INC.

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THOMPSON ENGINEERING TESTING, INC.

CHEMICAL, MATERIALS AND GEOTECHNICAL  
LABORATORIES

3707 COTTAGE HILL ROAD  
MOBILE, ALABAMA 36609  
TELEPHONE 205/666-2443



MARCH 12, 1993

REPORT #: 9  
JOB #: P93012

CLIENT: ENSAFE/ALLEN & HOSHAL  
PROJECT: NASP/CTO-063

REPORT OF: HYDRAULIC CONDUCTIVITY OF GRANULAR SOILS USING A RIGID  
WALL FERMEAMETER ASTM D-2434

SAMPLE IDENTIFICATION: 36573N02

FERMEAMETER #: 7

DATES  
SAMPLED: 02/17/93  
TESTED: 03/05/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: L. BAXLEY

INITIAL MOISTURE (%):...	15.04	WATER TEMP.(c):	19.00
FINAL MOISTURE (%):.....	27.59	HEAD (CM):	105.09
WET DENSITY (pcf):.....	107.76	SATURATION TIME (HR):	2.30
DRY DENSITY (pcf):.....	99.40	DEGREE OF SATURATION (%):	106.93
HEIGHT OF SAMPLE (cm):....	10.04	AREA (cm2):	41.93
DIA. OF SAMPLE (cm):.....	7.31	VOLUME (cm3):	420.0
DRY SOIL WT. (G):.....	670.36	WET SOIL WT. (G):	726.0
VOLUME OF SOLIDS (cm3):..	253.06	SPECIFIC GRAVITY:	2.6
POROSITY (%):.....	39.87	VOID RATIO.....	.66

UNIFIED SOIL CLASSIFICATION: ORANGE & RED COARSE-FINE SAND, LITTLE GRAVEL

TIME INTERVAL (SECONDS)	TOTAL VOLUME OF WATER (ML)	VOLUME OF WATER OVER INTERVAL (ML)	PERMEABILITY (CM/SEC) @ 20 C
1001.05	1000.00	1000.00	2.332e-3
474.83	1500.00	500.00	2.458e-3
193.02	1700.00	200.00	2.419e-3
288.4	300.00	300.00	2.428e-3
381.31	700.00	400.00	2.449e-3
TOTAL	TOTAL		AVERAGE
669.71	700.00		2.438e-3

*James E. Arch*  
THOMPSON ENGINEERING TESTING, INC.  
MATERIALS ENGINEERING LABORATORY

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THOMPSON ENGINEERING TESTING, INC.

CHEMICAL, MATERIALS AND GEOTECHNICAL  
LABORATORIES

3707 COTTAGE HILL ROAD  
MOBILE, ALABAMA 36609  
TELEPHONE 205/666-2443



MARCH 12, 1993

REPORT #: 8  
JOB #: P93012

CLIENT: ENSAFE/ALLEN & HOSHAL  
PROJECT: NASP/CTO - 063

REPORT OF: SPECIFIC GRAVITY OF SOLIDS ASTM D-854-83

SAMPLE ID: 36573N02

FYCNO METER #: 8

>>>> DATES  
SAMPLED: 02/17/93  
TESTED: 03/09/93

TECHNICIAN  
SAMPLED: CLIENT  
TESTED: L. BAXLEY

\*\*\*\*\*

>>>>> LABORATORY RESULTS <<<<<<<

(A) WEIGHT OF FYCNO METER (G):.....	180.27
(B) WEIGHT OF FYCNO METER AND SAMPLE (G):.....	286.12
(C) WEIGHT OF SAMPLE (G):.....	105.85
(D) WEIGHT OF FYCNO METER AND WATER (G):.....	678.30
(E) TEMP. OF FYCNO METER AND WATER (C):.....	24.00
(F) DENSITY OF WATER @ T1:.....	.997327
(G) WEIGHT OF FYCNO METER, SAMPLE AND WATER (G):.....	744.30
(H) TEMP. OF FYCNO METER, SAMPLE AND WATER (C):.....	24.00
(I) DENSITY OF WATER @ T2:.....	.997327

>>>>>> COMPUTATIONS <<<<<<<<

(R) = (D-A)/F*.998234+A.....	678.7529
(S) = (G-B)/I*.998234+B.....	744.7167
(GS) = C/(C+R)-S)*.998234.....	2.649111
SPECIFIC GRAVITY:.....	2.649

*Richard J. Luch*  
THOMPSON ENGINEERING TESTING, INC.  
MATERIALS ENGINEERING LABORATORY

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**Appendix F**  
**Section F.2**

**Soil Chemistry Analytical Data**

PENSACOLA SITE 38  
SOIL WET CHEMISTRY SAMPLES

Key presented at end of Appendix. Data not shown in significant digits.

ENSAPE ID:	38S3301	38S3401	38S3501	38S3601	38S3701	Laboratory Bl:
LAB ID:	M315700*3	M315700*4	M315756*1	M315756*2	M315756*3	M313415*5
LAB RCVD:	12/09/93	12/09/93	12/13/93	12/13/93	12/13/93	.

PARAMETER	UNITS					
W Cation Exchange Capacity	meq/l	2.6000	4.4000	9.5000	3.2000	7.0000
W Kjeldahl Nitrogen-N	MG/KG	180.0000	56.0000	330.0000	59.0000	250.0000
W Nitrate-N	MG/KG	5.2000	4.3000	2.0000	2.0000	2.0000
W Organic Carbon	MG/KG	460.0000	450.0000	1200.0000	540.0000	550.0000
W Phosphorus Total	MG/KG	120.0000	140.0000	160.0000	150.0000	210.0000
W Standard Plate Count	NO/g	420000.000	210000.000	3200000.00	40000.0000	3300000.00
						0.0500 U
						20.0000 U
						2.0000 U
						50.0000 U
						10.0000 U
						100.0000 U

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PENSACOLA SITE 38  
SOIL HEXACHROME SAMPLES

Key presented at end of Appendix. Data not shown in significant digits.

ENSAFE ID:	38SD3401	38SD3501	38SD3601	38SD3701	Method Blank	QMW02B312271
LAB ID:	AB3041	AB3289	AB3292	AB3295	P5871	P5822
LAB RCVD:	.	.	.	.	.	.
PARAMETER	UNITS					

H Hexavalent Chromium	MG/KG	1.0000 U	2.7500	1.5000	2.0000	1.0000 U	1.0000 U
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PENSACOLA SITE 38  
SOIL HEXACHROME SAMPLES

Key presented at end of Appendix. Data not shown in significant digits.

ENSAPE ID: 38S3801 38S3901 38S4001 38SD3001 38SD3101 38SD3301  
LAB ID: AB5515 AB5516 AB5517 AB3038 AB3039 AB3040

LAB RCVD:

PARAMETER	UNITS				
H Hexavalent Chromium	MG/KG	15.0000	12.0000	23.0000	1.0000 U 1.0000 U 1.2500

0000027

PENSACOLA SITE 38  
SOIL WET CHEMISTRY SAMPLES

Key presented at end of Appendix. Data not shown in significant digits.

ENSAPE ID: 38S0303 38S1103 38S1803 38S2203 38S3001 38S3101  
LAB ID: M313415\*1 M313415\*2 M313415\*3 M313415\*4 M315700\*2 M315700\*1  
LAB RCVD: 08/05/93 08/05/93 08/05/93 08/05/93 12/09/93 12/09/93

PARAMETER

UNITS

W Cation Exchange Capacity	mEq/10	1.3000	0.7200	7.0000	4.9000	0.3800	0.8700
W Kjeldahl Nitrogen-N	mg/kg	20.0000 U	20.0000 U	410.0000	74.0000	20.0000 U	20.0000 U
W Nitrate-N	mg/kg	3.3000	2.0000 U	2.0000 U	2.0000 U	2.0000	3.1000
W Organic Carbon	mg/kg	.	.	.	.	94.0000	220.0000
W Phosphorus Total	mg/kg	10.0000 U	10.0000 U	170.0000	20.0000	10.0000 U	12.0000
W Standard Plate Count	No/g	3100000.00	3700000.00	1600000.00	2100000.00	260000.000	170000.000
W TOC (EPA 415.1)	MG/KG	710.0000	50.0000 U	2100.0000	50.0000 U	.	.

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# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

900 Lakeside Drive • Mobile, Alabama 36693-5118 • (205) 666-6633 • Fax (205) 666-6696

LOG NO: M3-10692

Received: 17 FEB 93

Mr. Henry Biero  
EnSafe/Allen & Hoshall  
P.O. Box 341315  
Memphis, TN 38134

Purchase Order: E-0161/93, CTO-0048

Project: Pensacola Navy RI/FS  
Sampled By: Client

Page 1

REPORT OF RESULTS		DATE SAMPLED		
LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES			
10692-1	36S81W02	02-12-93		
10692-2	36S79C02	02-15-93		
10692-3	36S76W02	02-16-93		
		10692-1	10692-2	10692-3
PARAMETER				
Nitrate-N, mg/kg dw		15	16	4.5
Organic Carbon, mg/kg dw		630	940	400
Phosphorus, Total, mg/kg dw		160	140	71
Standard Plate Count, NO/g		150000	2100000	90000
Kjeldahl Nitrogen-N, mg/kg dw		98	250	75
Cation Exchange Capacity, meq/100g		7.6	4.5	4.3
Total Solids, %		92	95	95

Laboratory locations in Savannah, GA • Tallahassee, FL • Mobile, AL • Deerfield Beach, FL • Tampa, FL

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# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

900 Lakeside Drive • Mobile, Alabama 36693-5118 • (205) 666-6633 • Fax (205) 666-6696

LOG NO: M3-10768

Received: 19 FEB 93

Mr. Henry Biero  
EnSafe/Allen & Hoshall  
P.O. Box 341315  
Memphis, TN 38134

Purchase Order: E-0161/93,CTO-0048

Project: Pensacola Navy RI/FS  
Sampled By: Client

## REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
10768-1	36S75E04	02-17-93
PARAMETER	10768-1	
Phosphorus, Total, mg/kg dw	160	
Nitrate-N, mg/kg dw	110	
Kjeldahl Nitrogen-N, mg/kg dw	2900	
Organic Carbon, mg/kg dw	1700	
Standard Plate Count, NO/g	600000	
Cation Exchange Capacity, meq/100g	19	
Total Solids, %	81	

REFERENCE: Standard Methods 17th ed., 1989  
AOAC 18th ed., 1992; EPA/CE-81-1.

Michele H. Lersch  
Michele H. Lersch

Laboratory locations in Savannah, GA • Tallahassee, FL • Mobile, AL • Deerfield Beach, FL • Tampa, FL

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# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

900 Lakeside Drive • Mobile, Alabama 36693-5118 • (205) 666-6633 • Fax (205) 666-6696

LOG NO: M3-10692

Received: 17 FEB 93

Mr. Henry Biero  
EnSafe/Allen & Hoshall  
P.O. Box 341315  
Memphis, TN 38134

Purchase Order: E-0161/93, CTO-0048

Project: Pensacola Navy RI/FS  
Sampled By: Client

Page 2

REPORT OF RESULTS			
LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID			
10692-4	Laboratory Blank		
10692-5	Accuracy (7 Recovery)		
10692-6	Precision (Relative Percent Difference)		
PARAMETER	10692-4	10692-5	10692-6
Nitrate-N, mg/kg	<2.0	105 %	3.8 %
Organic Carbon, mg/kg	<50	96 %	3.1 %
Phosphorus, Total, mg/kg	<1.0	107 %	5.6 %
Standard Plate Count, NO/g	<1	---	---
Kjeldahl Nitrogen-N, mg/kg	<5.0	108 %	0 %
Cation Exchange Capacity, meq/100g	<0.50	104 %	2.9 %

*Michele H. Lersch*  
Michele H. Lersch

Laboratory locations in Savannah, GA • Tallahassee, FL • Mobile, AL • Deerfield Beach, FL • Tampa, FL

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## **Appendix G**

### **Hydrologic Data**

**G.1 Specific Capacity Tests Data**

**G.2 Tidal Study Pressure Transducer Data**

**G.3 Groundwater Chemistry Analytical Data**

**Appendix G**  
**Section G.1**

**Specific Capacity Tests Data**

\*\*\*\*\*  
 DETERMINATION OF AQUIFER PROPERTIES BASED ON ANALYSIS OF  
 SPECIFIC CAPACITY TESTS  
 \*\*\*\*\*

Copied from: Bradbury, K. R. and Rothschild, E. R., 1985. A computerized technique for estimating the hydraulic conductivity of aquifers from specific capacity data, Ground Water, 23(2), pp. 240-246.

WELL NUMBER 38GI03

WELL DIAMETER (IN) = 2  
 STATIC WATER LEVEL (FT) = 3.34  
 DEPTH TO WATER DURING TEST (FT) = 11.8  
 THE LENGTH OF THE TEST (HR) = .083  
 PUMPING RATE (GPM) = 10  
 THICKNESS OF AQUIFER (FT) = 40  
 OPEN INTERVAL (FT) = 10  
 STORAGE COEFFICIENT = .25  
 WELL-LOSS COEFFICIENT = .75

PECIFIC CAPACITY (GPM/FT) = 1.182085

TRANSMISSIVITY: (FT\*FT/SEC) = 7.223977E-03  
 (FT\*FT/DAY) = 624.1516  
 (GAL/DAY/FT) = 4668.967  
 USING A STORAGE COEFFICIENT = .25  
 NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 1.805994E-04  
 (FT/DAY) = 15.60379  
 (GAL/DAY/FT\*FT) = 103.6641

WELL NUMBER 38GI09

WELL DIAMETER (IN) = 2  
 STATIC WATER LEVEL (FT) = 5.62  
 DEPTH TO WATER DURING TEST (FT) = 7  
 THE LENGTH OF THE TEST (HR) = .083  
 PUMPING RATE (GPM) = 7.5  
 THICKNESS OF AQUIFER (FT) = 40  
 OPEN INTERVAL (FT) = 10  
 STORAGE COEFFICIENT = .25  
 WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 5.435607

TRANSMISSIVITY: (FT\*FT/SEC) = 3.473083E-02

0000001



(FT\*FT/D. = 3000.744  
(GAL/DAY/FT) = 22447.06  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 8.682708E-04  
(FT/DAY) = 75.0186  
(GAL/DAY/FT\*FT) = 498.3874

WELL NUMBER 38GI07

WELL DIAMETER (IN) = 2  
STATIC WATER LEVEL (FT) = 6.41  
DEPTH TO WATER DURING TEST (FT) = 10.45  
THE LENGTH OF THE TEST (HR) = .083  
PUMPING RATE (GPM) = 6  
THICKNESS OF AQUIFER (FT) = 40  
OPEN INTERVAL (FT) = 10  
STORAGE COEFFICIENT = .25  
WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 1.485198

TRANSMISSIVITY: (FT\*FT/SEC) = 9.138238E-03  
(FT\*FT/DAY) = 789.5437  
(GAL/DAY/FT) = 5906.182  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 2.28456E-04  
(FT/DAY) = 19.73859  
(GAL/DAY/FT\*FT) = 131.1337

WELL NUMBER 38GI01

WELL DIAMETER (IN) = 2  
STATIC WATER LEVEL (FT) = 5.2  
DEPTH TO WATER DURING TEST (FT) = 6.33  
THE LENGTH OF THE TEST (HR) = .083  
PUMPING RATE (GPM) = 10  
THICKNESS OF AQUIFER (FT) = 40  
OPEN INTERVAL (FT) = 10  
STORAGE COEFFICIENT = .25  
WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 8.852471

TRANSMISSIVITY: (FT\*FT/SEC) = 5.734977E-02  
(FT\*FT/DAY) = 4955.02  
(GAL/DAY/FT) = 37066.03  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 3

0000002

HYDRAULIC CONDUCTIVITY: FT/SEC) = 1.433744E-03  
(FT/DAY) = 123.8755  
(GAL/DAY/FT\*FT) = 822.9693

WELL NUMBER 38GS07

WELL DIAMETER (IN) = 2  
STATIC WATER LEVEL (FT) = 6.54  
DEPTH TO WATER DURING TEST (FT) = 7.32  
THE LENGTH OF THE TEST (HR) = .083  
PUMPING RATE (GPM) = 10  
THICKNESS OF AQUIFER (FT) = 40  
OPEN INTERVAL (FT) = 7  
STORAGE COEFFICIENT = .25  
WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 12.82663

TRANSMISSIVITY: (FT\*FT/SEC) = .1140978  
(FT\*FT/DAY) = 9858.045  
(GAL/DAY/FT) = 73743.1  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 2.852444E-03  
(FT/DAY) = 246.4511  
(GAL/DAY/FT\*FT) = 1637.303

WELL NUMBER 38GS08

WELL DIAMETER (IN) = 2  
STATIC WATER LEVEL (FT) = 6.6  
DEPTH TO WATER DURING TEST (FT) = 7.32  
THE LENGTH OF THE TEST (HR) = .083  
PUMPING RATE (GPM) = 8.3  
THICKNESS OF AQUIFER (FT) = 40  
OPEN INTERVAL (FT) = 7  
STORAGE COEFFICIENT = .25  
WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 11.53188

TRANSMISSIVITY: (FT\*FT/SEC) = .1023585  
(FT\*FT/DAY) = 8843.778  
(GAL/DAY/FT) = 66155.88  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 2

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 2.558964E-03  
(FT/DAY) = 221.0945  
(GAL/DAY/FT\*FT) = 1468.845

0000003

WELL NUMBER 38GS01

WELL DIAMETER (IN) = 2  
STATIC WATER LEVEL (FT) = 5.04  
DEPTH TO WATER DURING TEST (FT) = 6.82  
THE LENGTH OF THE TEST (HR) = .083  
PUMPING RATE (GPM) = 7  
THICKNESS OF AQUIFER (FT) = 40  
OPEN INTERVAL (FT) = 6  
STORAGE COEFFICIENT = .25  
WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 3.932987

TRANSMISSIVITY: (FT\*FT/SEC) = 3.900607E-02  
(FT\*FT/DAY) = 3370.125  
(GAL/DAY/FT) = 25210.22  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 9.751518E-04  
(FT/DAY) = 84.25312  
(GAL/DAY/FT\*FT) = 559.7372

ELL NUMBER 38GS14

WELL DIAMETER (IN) = 2  
STATIC WATER LEVEL (FT) = 7.64  
DEPTH TO WATER DURING TEST (FT) = 8.7  
THE LENGTH OF THE TEST (HR) = .083  
PUMPING RATE (GPM) = 10  
THICKNESS OF AQUIFER (FT) = 40  
OPEN INTERVAL (FT) = 7  
STORAGE COEFFICIENT = .25  
WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 9.437275

TRANSMISSIVITY: (FT\*FT/SEC) = 8.342446E-02  
(FT\*FT/DAY) = 7207.873  
(GAL/DAY/FT) = 53918.49  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 2.085612E-03  
(FT/DAY) = 180.1968  
(GAL/DAY/FT\*FT) = 1197.141

WELL NUMBER 38GS03

0000004



WELL DIAMETER (IN) = 2  
STATIC WATER LEVEL (FT) = 3.5  
DEPTH TO WATER DURING TEST (FT) = 4.05  
THE LENGTH OF THE TEST (HR) = .083  
PUMPING RATE (GPM) = 10  
THICKNESS OF AQUIFER (FT) = 40  
OPEN INTERVAL (FT) = 7.5  
STORAGE COEFFICIENT = .25  
WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 18.19412

TRANSMISSIVITY: (FT\*FT/SEC) = .1537989  
(FT\*FT/DAY) = 13288.22  
(GAL/DAY/FT) = 99402.53  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 3.844971E-03  
(FT/DAY) = 332.2055  
(GAL/DAY/FT\*FT) = 2207.014

WELL NUMBER 38GS13

WELL DIAMETER (IN) = 2  
STATIC WATER LEVEL (FT) = 3.54  
DEPTH TO WATER DURING TEST (FT) = 4.3  
THE LENGTH OF THE TEST (HR) = .05  
PUMPING RATE (GPM) = 13.5  
THICKNESS OF AQUIFER (FT) = 40  
OPEN INTERVAL (FT) = 7  
STORAGE COEFFICIENT = .25  
WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 17.77901

TRANSMISSIVITY: (FT\*FT/SEC) = .1575713  
(FT\*FT/DAY) = 13614.16  
(GAL/DAY/FT) = 101840.7  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 3.939283E-03  
(FT/DAY) = 340.3541  
(GAL/DAY/FT\*FT) = 2261.149

WELL NUMBER 38GS11

WELL DIAMETER (IN) = 2  
STATIC WATER LEVEL (FT) = 3.86  
DEPTH TO WATER DURING TEST (FT) = 4.68

0000005

THE LENGTH OF THE TEST (H) = .083  
PUMPING RATE (GPM) = 12  
THICKNESS OF AQUIFER (FT) = 40  
OPEN INTERVAL (FT) = 7  
STORAGE COEFFICIENT = .25  
WELL-LOSS COEFFICIENT = .75

SPECIFIC CAPACITY (GPM/FT) = 14.64372

TRANSMISSIVITY: (FT\*FT/SEC) = .1306123  
(FT\*FT/DAY) = 11284.9  
(GAL/DAY/FT) = 84416.68  
USING A STORAGE COEFFICIENT = .25  
NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 3.265306E-03  
(FT/DAY) = 282.1225  
(GAL/DAY/FT\*FT) = 1874.286

THE NUMBER OF WELLS IN THIS RECORD IS 11

0000000

38GSD7

AQUIFER TEST DATA						
Owner <u>NAS P</u>		Location <u>next to Build. 604</u>				
Project No. <u>Site 30</u>						
Date <u>11-11-93</u>		Measured By <u>G.P./J.M.</u>				
Well No. <u>38W507</u>		38GSD7		Date <u>12-6-93</u>		
Test No. <u>(MW10) ABB</u>		Distance from Pumping Well		Type of Test <u>Spec cap.</u>		
Measuring Equipment <u>centr. pump</u>						
Time Date		Water Level Data		Discharge Data		Comments on Factors Affecting Test Data
Pump On: Date _____ Time _____ (t) Pump Off: Date _____ Time _____ (t) Duration of Aquifer Test: _____ Pumping _____ Recovery _____		Static Water Level <u>6.54</u> Measuring Point _____ Elevation of Measuring Point _____		How Q Measured _____ Depth of Pump/Air Line _____		
Time	Elapsed Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
	0	6.54				
	15	6.10				
	30	6.20				
	45	6.20				
	1	6.20	8 gal min			
	2	6.24				
	5	6.32	30 gal 2 min			
	15	6.66				
	30	6.51				
	45	6.56				
	1	6.55				
	2	6.54				
	5	6.54				



36508

AQUIFER TEST DATA						
Owner <u>NASP CLEAN</u>		Location <u>Site 38 / S. of 604</u>				
Project No. _____						
Date <u>11-12-93</u>		Measured By <u>A. P. J. M.</u>				
Well No. <u>386508</u>		Distance from Pumping Well <u>386508</u>			Type of Test <u>Spec. Cap.</u>	
Test No. <u>(MW 7) ABB</u>						
Measuring Equipment _____						
Time Date		Water Level Data		Discharge Data		Comments on Factors Affecting Test Data
Pump On: Date _____		Static Water Level <u>6.6</u>				
Time _____ (t)		Measuring Point _____				
Pump Off: Date _____		Elevation of Measuring Point _____		How Q Measured _____		
Time _____ (t')				Depth of Pump/Air Line _____		
Duration of Aquifer Test: _____						
Pumping _____						
Recovery _____						
Time	Elapsed Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
	0	6.61				
	15	7.18				
	30	7.22				
	45	7.27				
	1:00	7.30	8.3 gal p m			
	2:00	7.32				
	5:00	7.32				
	15	6.74				
	30	6.68				
	45	6.67				
	1:00	6.65				
	2:00	6.64				
	5:00	6.62				

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38G501

AQUIFER TEST DATA						
Owner <u>NASP</u>		Location <u>across street from bldg 1</u>				
Project No. _____						
Date _____		Measured By <u>g.p./g.m.</u>				
Well No. <u>30G501</u>		Distance from Pumping Well _____		Type of Test <u>Specific Capacity</u>		
Test No. _____						
Measuring Equipment _____						
Time Date		Water Level Data		Discharge Data		Comments on Factors Affecting Test Data
Pump On: Date _____ Time _____ (t) Pump Off: Date _____ Time _____ (t') Duration of Aquifer Test: Pumping _____ Recovery _____		Static Water Level _____ Measuring Point _____ Elevation of Measuring Point _____		How Q Measured _____ Depth of Pump/Air Line _____		
Time	Elapsed Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	gpm Rate	
	0	5.04				
	15 sec	5.42				
	30 sec	5.66				
	45 sec	6.27				
	1 min	6.77			7.0	
	2 min	6.77				
	5 min	6.82				
	15 sec	6.20				
	30 sec	5.20				
	45 sec	5.15				
	1 min	5.14				
	2 min	5.13				
	5 min	5.11				

10:1

00000003

AQUIFER TEST DATA						
Owner <u>EnSafe</u>		Location <u>NASP</u>				
Project No. <u>Site 38</u>						
Date <u>3-10-94</u>		Measured By <u>DT, MNK</u>				
Well No. <u>38G514</u>		Distance from Pumping Well _____			Type of Test <u>SPE. CAP.</u>	
Test No. _____						
Measuring Equipment <u>Stop watch, electronic water level, 5gal bucket</u>						
<b>Time Date</b>  Pump On: Date <u>3-10-94</u> Time <u>10:30</u> (t) Pump Off: Date <u>3-10-94</u> Time <u>10:35</u> (t) Duration of Aquifer Test: Pumping <u>5 min</u> Recovery <u>5 min</u>		<b>Water Level Data</b>  Static Water Level <u>7.64'</u> Measuring Point <u>TDC</u> Elevation of Measuring Point _____		<b>Discharge Data</b>  <div style="text-align: center; font-size: 1.2em;">10 gpm</div> How Q Measured _____ Depth of Pump/Air Line <u>~10'</u>		<b>Comments on Factors Affecting Test Data</b>  <u>5 Hp Cent. Pump</u>
Time	Elapsed Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
10:30	:15	8:45'				
	:30	8:55'				
	:45	NR				
	1:00	8:55'				
	1:30	8:65'				
	2:00	8:68'				
	3:00	8:70'				
	5:00	8:70'				Pump Off
	:15	7:78'				
	:30	7:76'				
	:45	7:73'				
	6:00	7:73'				
	6:30	7:73'				
	7:00	7:72'				



AQUIFER TEST DATA						
Owner <u>En Safe</u>		Location <u>NASP</u>				
Project No. <u>Site 38</u>						
Date <u>3-10-94</u>		Measured By <u>DT, MNK</u>				
Well No. <u>38GS14</u>		Distance from Pumping Well _____			Type of Test _____	
Test No. _____						
Measuring Equipment _____						
<b>Time Date</b>  Pump On: Date _____ Time _____ (t) Pump Off: Date _____ Time _____ (t') Duration of Aquifer Test: Pumping _____ Recovery _____		<b>Water Level Data</b>  Static Water Level _____ Measuring Point _____ Elevation of Measuring Point _____		<b>Discharge Data</b>  Flow Q Measured _____ Depth of Pump/Air Line _____		<b>Comments on Factors Affecting Test Data</b>
<b>Time</b>	<b>Elapsed Clock Time</b>	<b>Water Level Measurement</b>	<b>Water Level Change s or s'</b>	<b>Discharge Measurement</b>	<b>Rate</b>	
	8:00	7.70'				
10:40	10:00	7.65'				

AQUIFER TEST DATA						
Owner <u>EnSafe</u>		Location <u>NASP</u>				
Project No. <u>Site 3B</u>						
Date <u>3-10-94</u>		Measured By <u>DE, MNK</u>				
Well No. <u>38G503</u>		Distance from Pumping Well <u>@ well</u>		Type of Test <u>SPE. CAP.</u>		
Test No. _____						
Measuring Equipment <u>Stopwatch, electronic water level, 5gal bucket</u>						
Time Date		Water Level Data		Discharge Data		Comments on Factors Affecting Test Data
Pump On: Date <u>3-10-94</u> Time <u>0930</u> (t) Pump Off: Date <u>3-10-94</u> Time <u>0935</u> (t') Duration of Aquifer Test: Pumping <u>5 min</u> Recovery <u>5 min</u>		Static Water Level <u>3.50'</u> Measuring Point <u>TDC</u> Elevation of Measuring Point _____		<u>10 gpm</u> How Q Measured _____ Depth of Pump/Air Line <u>210'</u>		<u>5 Hp Cent. Pump.</u>
Time	Elapsed Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
9:30	:15	3.96			10 gal/min	
	:30	4.00				
	:45	4.00				
	1:00	4.00				
	2:00	4.02				
	5:00	4.05		50 gal		Pump-off
	:15	3.56				
	:30	3.55				
	:45					
	6:00	3.54				
	7:00	3.53				
	8:00	3.52				
	9:00	3.51				
	10:00	3.51				

0000012

AQUIFER TEST DATA						
Owner <u>NAVY - NASP</u>			Location <u>SITE 38</u>			
Project No. _____						
Date <u>3/9/94</u>		Measured By <u>FM/MK</u>				
Well No. <u>386S13</u>		Distance from Pumping Well <u>@ well</u>		Type of Test <u>SPECAP</u>		
Test No. _____						
Measuring Equipment <u>Slope Indicator: Water level</u>						
Time Date		Water Level Data		Discharge Data		Comments on Factors Affecting Test Data
Pump On: Date <u>3/9/94</u> Time <u>10:18</u> (y) Pump Off: Date <u>3/9/94</u> Time <u>10:22</u> (t) Duration of Aquifer Test: Pumping <u>4:00</u> Recovery <u>8:00</u>		Static Water Level <u>3.54'</u> Measuring Point <u>TOC</u> - <u>NORTH</u> Elevation of Measuring Point _____		How Q Measured _____ Depth of Pump/Air Line _____		
<u>ELAPSED</u> Time	<del>Elapsed</del> Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
:15		4.15		5 gal / 22 sec		
:30		4.2				
:45		4.22				
1:00		4.24				
1:30		4.25				
2:00		4.27				
2:30		4.28				
3:00		4.30				
3:30		4.30				
4:00		4.30				- Pump off
4:15		3.70				
4:30		3.65				
4:55		3.65				
5:00		3.65				



AQUIFER TEST DATA						
Owner <u>NAVY - NASP</u>		Location <u>SITE 38</u>				
Project No. _____						
Date <u>3/9/94</u>		Measured By <u>MK/FM</u>				
Well No. <u>584813</u>		Distance from Pumping Well <u>@ Well</u>		Type of Test <u>SPE CAP</u>		
Test No. _____						
Measuring Equipment <u>SEE 102</u>						
<b>Time Date</b> <u>SEE 102</u> Pump On: Date _____ Time _____ (t) Pump Off: Date _____ Time _____ (t') Duration of Aquifer Test: _____ Pumping _____ Recovery _____		<b>Water Level Data</b> <u>SEE 102</u> Static Water Level _____ Measuring Point _____ Elevation of Measuring Point _____		<b>Discharge Data</b>  How Q Measured _____ Depth of Pump/Air Line _____		<b>Comments on Factors Affecting Test Data</b>
<b>ELAPSED</b> Time	<del>Elapsed</del> Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
5:30		3.645				
6:00		3.65				
7:00		3.64				
8:00		3.62				
<del>9:00</del>						
10:00		3.61				
12:00		3.61				
<u>end of test</u>						

AQUIFER TEST DATA						
Owner <u>NAVY - NASP</u>		Location <u>SITE 38</u>				
Project No. _____						
Date <u>3/9/94</u>		Measured By <u>FM/mk</u>				
Well No. <u>386511</u>		Distance from Pumping Well <u>@ Well</u>		Type of Test <u>SPECAD</u>		
Test No. _____						
Measuring Equipment <u>Slope Indicator Elec. Water Level</u>						
Time Date		Water Level Data		Discharge Data		Comments on Factors Affecting Test Data
Pump On: Date <u>3/9/94</u> Time _____ (t) Pump Off: Date <u>3/9/94</u> Time _____ (t) Duration of Aquifer Test: _____ Pumping _____ Recovery _____		Static Water Level <u>3.86'</u> Measuring Point <u>TCC</u> Elevation of Measuring Point _____		Total = 55 gal Flow Q Measured _____ Depth of Pump/Air Line _____		
<u>Elapsed</u> Time	<del>Elapsed</del> Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
:15		4.50		5 gal / 25 sec		
:30		4.60		50		
:45		4.62				
1:00		4.63				
1:30		4.64				
2:00		4.64				
2:30		4.65				
3:00		4.66				
4:00		4.67				Pump Off
5:00		4.68				
5:05		<del>3.95</del> 4.00				
:15		3.97				
:30		3.95				
:45		3.94				

AQUIFER TEST DATA						
Owner <u>NAVY - NASP</u>		Location <u>SITE 38</u>				
Project No. _____						
Date <u>3/9/94</u>		Measured By <u>MK/FM</u>				
Well No. <u>384511</u>		Distance from Pumping Well <u>@ Well</u>		Type of Test <u>SPE CAP</u>		
Test No. _____						
Measuring Equipment <u>See 1042</u>						
<b>Time Date</b> <u>SEE 1042</u>		<b>Water Level Data</b> <u>SEE 1042</u>		<b>Discharge Data</b>		<b>Comments on Factors Affecting Test Data</b>
Pump On: Date _____ Time _____ (t) Pump Off: Date _____ Time _____ (t') Duration of Aquifer Test: _____ Pumping _____ Recovery _____		Static Water Level _____ Measuring Point _____ Elevation of Measuring Point _____		How Q Measured _____ Depth of Pump/Air Line _____		
Time	Elapsed Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
6:00		3.92				
6:15		3.92				
6:45		3.91				
7:15		3.92				
8:00		3.92				
9:00		3.92				
10:00		3.91				
11:00		3.90				
12:00		3.90				



AQUIFER TEST DATA						
Owner <u>U.S. NAVY, NASP</u>		Location <u>SITE 3B</u>				
Project No. _____						
Date <u>3/9/94</u>		Measured By <u>FM/MK</u>				
Well No. <u>384I03</u>		Distance from Pumping Well <u>@ WELL</u>		Type of Test <u>SPE CAP</u>		
Test No. _____						
Measuring Equipment <u>SLOPE INDICATOR CO. - ELEC. WATER LEVEL INDICATOR</u>						
<b>Time Date</b>  Pump On: Date <u>3/9/94</u> Time <u>9:36</u> (t) Pump Off: Date <u>3/9/94</u> Time <u>9:41</u> (t) Duration of Aquifer Test: Pumping <u>5:00</u> Recovery <u>14:00</u>		<b>Water Level Data</b>  Static Water Level <u>3.24'</u> Measuring Point <u>NORTH TDC</u> Elevation of Measuring Point _____		<b>Discharge Data</b>  <u>Total = 43 gallons</u>  How Q Measured _____ Depth of Pump/Air Line <u>8'</u> <u>B.W.T</u>		<b>Comments on Factors Affecting Test Data</b>
<b>Time Elapsed</b> Time	<b>Elapsed Clock Time</b> Time	<b>Water Level Measurement</b>	<b>Water Level Change s or s'</b>	<b>Discharge Measurement</b>	<b>Rate</b>	
:30		8.5		10 gpm		
:45		10.2				
1:00		10.6				
1:30		11.39				
1:45		11.51				
2:00		11.56				
2:45		11.56				Dropped Pump Line 2'
3:15		11.61				
3:45		11.66				
4:15		11.70				
5:00		11.80				Turned Pump off
5:15		6.4				
6:0		4.3				
6:30		4.1				

AQUIFER TEST DATA						
Owner <u>NAVY - NASIP</u>		Location <u>SITE 38</u>				
Project No. _____						
Date <u>3/9/94</u>		Measured By <u>FM/MK</u>				
Well No. <u>38GIØ3</u>		Distance from Pumping Well <u>@ Well</u>		Type of Test <u>SPE CAP</u>		
Test No. _____						
Measuring Equipment <u>SEE 10F2</u>						
<b>Time Date</b> Pump On: Date <u>3/9/94</u> Time _____ (t) Pump Off: Date _____ Time _____ (t') Duration of Aquifer Test: _____ Pumping <u>A</u> Recovery _____		<b>Water Level Data</b> <u>SEE 10F2</u> Static Water Level _____ Measuring Point _____ Elevation of Measuring Point _____		<b>Discharge Data</b> How Q Measured _____ Depth of Pump/Air Line _____		<b>Comments on Factors Affecting Test Data</b>
<b>Time Elapsed</b> Time	<b>Elapsed Clock Time</b> Time	<b>Water Level Measurement</b>	<b>Water Level Change s or s'</b>	<b>Discharge Measurement</b>	<b>Rate</b>	
7:00		4.00				
7:45		3.86				
8:30		3.80				
9:30		3.70				
10:30		3.69				
11:30		3.66				
12:30		3.61				
13:30		3.55				
15:00		3.47				
16:30		3.45				
19:00		3.42				
<del>21:00</del>						

# AQUIFER TEST DATA

Page 1 of 1

Location NASP  
 Measured By DT, MNK  
 Distance from Pumping Well @ well  
 Type of Test SPE. CAP.  
Stop watch, electronic water level, 5gal bucket

<b>Water Level Data</b> Static Water Level <u>5.62'</u> Measuring Point <u>TOC</u> Elevation of Measuring Point _____		<b>Discharge Data</b> 7.5 gpm How Q Measured _____ Depth of Pump/Air Line <u>~10'</u>	<b>Comments on Factors Affecting Test Data</b> 5 Hr cent. Pump
--	--	--	---

Water Level Measurement	Water Level Change s or s'	Discharge Measurement	gal/sec Rate
6.90			
6.95			
7.00			5/10
7.00			
7.00			
7.00			
7.00			
5.65			
5.65			Pump off
6.64			
6.63			
6.63			



AQUIFER TEST DATA						
Owner <u>EnSafe</u>		Location <u>Site 38 NASP</u>				
Project No. _____		Date <u>3-10-94</u>				
Well No. <u>38GIØ7</u>		Measured By <u>DT, MNK</u>				
Test No. _____		Distance from Pumping Well <u>@ well</u>		Type of Test <u>SPE. CAP.</u>		
Measuring Equipment <u>5gal bucket, stopwatch, electronic water level</u>						
<b>Time Date</b> Pump On: Date <u>3-10-94</u> Time <u>1100</u> (t) Pump Off: Date <u>3-10-94</u> Time <u>1105</u> (t) Duration of Aquifer Test: Pumping <u>5 min</u> Recovery <u>5 min</u>		<b>Water Level Data</b> Static Water Level <u>6.41'</u> Measuring Point <u>TOC</u> Elevation of Measuring Point _____		<b>Discharge Data</b> <div style="text-align: center; font-size: 1.2em; margin-top: 20px;">69pm</div> How Q Measured _____ Depth of Pump/Air Line <u>~15'</u>		<b>Comments on Factors Affecting Test Data</b> <div style="text-align: center; margin-top: 20px;">5Hp Cent. Pump</div>
Time	Elapsed Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
11:00	:15	9.70'				
	:30	9.85'				
	:45	9.85'				
	1:00	9.95'				
	1:30	10.05'				
	2:00	10.20'				
	3:00	10.30'				
11:05	5:00	10.45'				
	:15	7.20'				Pump-off
	:30	7.00'				
	:45	6.85'				
	6:00	6.75'				
	6:30	6.66'				
	7:00	6.60'				

[illegible]

0000021

36101

AQUIFER TEST DATA						
Owner <u>NASR Site 38</u>		Location <u>Bldg 71</u>				
Project No. _____						
Date <u>11/2/93</u>		Measured By <u>J.P. SM</u>				
Well No. <u>36101</u>		Distance from Pumping Well <u>N/A</u>		Type of Test <u>SP Cap</u>		
Test No. _____						
Measuring Equipment _____						
Time Date		Water Level Data		Discharge Data		Comments on Factors Affecting Test Data
Pump On: Date <u>11/2/93</u>		Static Water Level <u>5.2</u>				
Time <u>105</u> (t)		Measuring Point <u>IOC</u>				
Pump Off: Date <u>same</u>		Elevation of Measuring Point _____		How Q Measured _____		
Time _____ (t')				Depth of Pump/Air Line _____		
Duration of Aquifer Test:						
Pumping <u>5 min</u>						
Recovery <u>5 min</u>						
Time	Elapsed Clock Time	Water Level Measurement	Water Level Change s or s'	Discharge Measurement	Rate	
	0	5.21				
	15 sec	6.30				
	30 sec	6.33				Slightly Turbid
	45 sec	6.35				
	1 min	6.34				
	2 min	6.33			10 gpm	
	5 min	6.33				
	<del>10 min</del>	<del>5.23</del>				
	15 sec	5.23				
	30 sec	5.22				
	45 sec	5.21				
	1 min	5.21				
	2 min	5.19				
	5 min	5.19				

1/c



**Appendix G**  
**Section G.2**

**Tidal Study Pressure Transducer Data**

Site 38 - Tidal Study, Pressure Transducer Data

Elapsed Tim	38GS01	38GS02	38GS03	38GS08	38GS21	TIDES	BAR-PSI	BAR-FEET
0	0.000	0.085	0.000	0.001	-0.003	0.176	14.890	34.247
15	0.000	0.091	0.000	-0.001	0.001	0.542	14.890	34.247
30	0.000	0.107	0.000	0.000	-0.001	0.529	14.895	34.259
60	0.000	0.118	0.000	-0.003	-0.003	0.494	14.897	34.263
75	0.000	0.131	0.000	-0.001	-0.004	0.286	14.896	34.261
90	0.000	0.139	0.000	0.001	-0.003	0.520	14.897	34.263
105	0.000	0.147	0.000	-0.003	-0.003	0.053	14.895	34.259
120	0.000	0.157	0.000	-0.001	-0.001	0.233	14.897	34.263
135	0.000	0.163	0.000	-0.001	-0.003	0.334	14.899	34.268
150	0.000	0.176	0.000	0.003	-0.001	0.305	14.897	34.263
165	0.000	0.185	0.000	-0.001	-0.003	0.627	14.896	34.261
180	0.000	0.191	0.000	0.001	-0.001	0.318	14.892	34.252
195	0.000	0.195	0.000	-0.001	-0.003	0.438	14.894	34.256
210	0.000	0.207	0.000	0.003	-0.004	0.564	14.885	34.236
225	0.000	0.212	0.000	0.001	-0.003	0.611	14.885	34.236
240	0.000	0.220	0.000	0.000	-0.003	0.053	14.885	34.236
255	0.000	0.227	0.000	0.000	-0.003	0.359	14.880	34.224
270	0.000	0.233	0.000	0.000	-0.004	0.148	14.874	34.210
285	0.000	0.235	0.000	0.001	-0.006	0.425	14.878	34.219
300	0.000	0.235	0.000	0.000	-0.003	0.185	14.877	34.217
315	0.000	0.240	0.000	0.000	-0.004	0.245	14.878	34.219
330	0.000	0.238	0.000	0.001	-0.006	0.283	14.878	34.219
345	0.000	0.244	0.000	0.001	-0.004	-0.198	14.873	34.208
360	0.000	0.246	0.000	0.001	-0.003	-0.094	14.870	34.201
375	0.000	0.243	0.000	0.001	-0.004	0.135	14.873	34.208
390	0.000	0.247	0.000	0.003	-0.001	-0.053	14.875	34.213
405	0.000	0.244	0.000	0.004	-0.004	-0.015	14.875	34.213
420	0.000	0.243	0.000	0.000	-0.003	-0.409	14.873	34.208
435	0.000	0.243	0.000	0.001	-0.003	-0.349	14.867	34.194
450	0.000	0.237	0.000	0.001	0.004	-0.151	14.866	34.192
465	0.000	0.234	0.000	0.001	0.003	-0.535	14.867	34.194
480	0.000	0.238	0.000	0.004	0.004	-0.412	14.861	34.180
495	0.000	0.231	0.000	0.001	-0.001	-0.441	14.861	34.180
510	0.000	0.228	0.000	0.004	0.003	-0.835	14.862	34.183
525	0.000	0.221	0.000	0.004	0.001	-0.671	14.857	34.171
540	0.000	0.214	0.000	0.003	-0.001	-0.926	14.854	34.164
555	0.000	0.208	0.000	0.004	0.001	-0.539	14.847	34.148
570	0.000	0.201	0.000	0.004	0.001	-0.608	14.850	34.155
585	0.000	0.188	0.000	0.004	0.001	-0.734	14.852	34.160
600	0.000	0.185	0.000	0.003	0.000	-0.816	14.847	34.148

# Site 38 - Tidal Study, Pressure Transducer Data

Elapsed Tim	38GS01	38GS02	38GS03	38GS08	38GS21	TIDES	BAR-PSI	BAR-FEET
615	0.000	0.179	0.000	0.003	-0.001	-0.892	14.846	34.146
630	0.000	0.170	0.000	0.004	-0.001	-1.137	14.848	34.150
645	0.000	0.160	0.000	0.006	0.001	-1.081	14.846	34.146
660	0.000	0.152	0.000	0.006	-0.004	-1.002	14.850	34.155
675	0.000	0.147	0.000	0.006	-0.001	-1.339	14.846	34.146
690	0.000	0.144	0.000	0.006	0.003	-1.159	14.846	34.146
705	0.000	0.137	0.000	0.006	0.001	-0.658	14.845	34.144
720	0.000	0.129	0.000	0.006	-0.001	-0.986	14.846	34.146
735	0.000	0.120	0.000	0.007	-0.001	-1.175	14.847	34.148
750	0.000	0.111	0.000	0.007	-0.001	-0.917	14.847	34.148
765	0.000	0.107	0.000	0.006	0.001	-0.948	14.847	34.148
780	0.000	0.100	0.000	0.009	0.000	-1.191	14.848	34.150
795	0.000	0.092	0.000	0.007	0.001	-0.977	14.851	34.157
810	0.000	0.088	0.000	0.007	0.000	-1.194	14.848	34.150
825	0.000	0.081	0.000	0.009	0.001	-1.437	14.852	34.160
840	0.000	0.078	0.000	0.010	0.001	-1.131	14.851	34.157
855	0.000	0.074	0.000	0.007	0.003	-0.863	14.850	34.155
870	0.000	0.071	0.000	0.009	0.003	-0.740	14.847	34.148
885	0.000	0.069	0.000	0.010	0.004	-0.368	14.844	34.141
900	0.000	0.068	0.000	0.006	0.004	-0.888	14.841	34.134
915	0.000	0.065	0.000	0.009	0.003	-0.762	14.840	34.132
930	0.000	0.065	0.000	0.010	0.001	-0.535	14.835	34.121
945	0.000	0.061	0.000	0.009	0.003	-0.450	14.833	34.116
960	0.000	0.065	0.000	0.007	0.000	-0.602	14.830	34.109
975	0.000	0.062	0.000	0.009	-0.001	-0.189	14.829	34.107
990	0.000	0.064	0.000	0.009	-0.001	-0.602	14.828	34.104
1005	0.000	0.066	0.000	0.010	0.000	-0.287	14.823	34.093
1020	0.000	0.069	0.000	0.006	-0.001	-0.217	14.817	34.079
1035	0.000	0.068	0.000	0.007	0.001	-0.075	14.814	34.072
1050	0.000	0.072	0.000	0.010	0.001	-0.286	14.810	34.063
1065	0.000	0.074	0.000	0.009	-0.004	-0.308	14.803	34.047
1080	0.000	0.081	0.000	0.006	-0.003	-1.008	14.803	34.047
1095	0.000	0.084	0.000	0.010	-0.004	0.463	14.798	34.035
1110	0.000	0.087	0.000	0.007	-0.004	-0.431	14.797	34.033
1125	0.000	0.092	0.000	0.006	-0.004	-0.561	14.795	34.029
1140	0.000	0.101	0.000	0.006	-0.006	-0.305	14.794	34.026
1155	0.000	0.104	0.000	0.006	-0.006	-0.227	14.795	34.029
1170	0.000	0.117	0.000	0.009	-0.006	0.031	14.794	34.026
1185	0.000	0.130	0.000	0.006	-0.010	0.000	14.795	34.029
1200	0.000	0.142	0.000	0.010	-0.012	0.368	14.792	34.022



Site 38 - Tidal Study, Pressure Transducer Data

Elapsed Tim	38GS01	38GS02	38GS03	38GS08	38GS21	TIDES	BAR-PSI	BAR-FEET
1215	0.000	0.155	0.000	0.004	-0.013	0.192	14.787	34.010
1230	0.000	0.165	0.000	0.003	-0.023	1.437	14.789	34.015
1245	0.000	0.179	0.000	0.006	-0.027	0.025	14.787	34.010
1260	0.000	0.188	0.000	0.006	-0.030	-0.097	14.790	34.017
1275	0.000	0.199	0.000	0.010	-0.042	0.290	14.792	34.022
1290	0.000	0.214	0.000	0.006	-0.046	1.362	14.792	34.022
1305	0.000	0.224	0.000	0.007	-0.050	0.390	14.794	34.028
1320	0.000	0.231	0.000	0.006	-0.050	0.841	14.796	34.031
1335	0.000	0.241	0.000	0.006	-0.050	0.750	14.794	34.026
1350	0.000	0.256	0.000	0.004	-0.053	0.425	14.792	34.022
1365	0.000	0.266	0.000	0.001	-0.053	0.435	14.790	34.017
1380	0.000	0.277	0.000	-0.001	-0.055	0.520	14.789	34.015
1395	0.000	0.285	0.000	-0.003	-0.058	0.819	14.789	34.015
1410	0.000	0.292	0.000	-0.004	-0.061	1.078	14.790	34.017
1425	0.000	0.306	0.000	-0.004	-0.062	0.844	14.788	34.012
1440	0.000	0.308	0.000	-0.007	-0.066	0.986	14.788	34.012
1455	0.000	0.321	0.000	-0.010	-0.066	0.819	14.791	34.019
1470	0.000	0.329	0.000	-0.013	-0.068	0.643	14.785	34.006
1485	0.000	0.337	0.000	-0.013	-0.068	1.062	14.786	34.008
1500	0.000	0.341	0.000	-0.017	-0.068	1.072	14.786	34.008
1515	0.000	0.351	0.000	-0.014	-0.066	0.006	14.783	34.001
1530	0.000	0.363	0.000	-0.020	-0.069	1.772	14.778	33.989
1545	0.000	0.367	0.000	-0.025	-0.068	1.128	14.776	33.985
1560	0.000	0.374	0.000	-0.023	-0.065	1.248	14.775	33.983
1575	0.000	0.384	0.000	-0.026	-0.063	1.169	14.769	33.969
1590	0.000	0.393	0.000	-0.027	-0.062	0.964	14.763	33.955
1605	0.000	0.399	0.000	-0.029	-0.063	1.664	14.770	33.971
1620	0.000	0.403	0.000	-0.030	-0.061	1.150	14.772	33.976
1635	0.000	0.412	0.000	-0.029	-0.062	1.459	14.775	33.983
1650	0.000	0.420	0.000	-0.030	-0.058	1.415	14.777	33.987
1665	0.000	0.432	0.000	-0.032	-0.058	1.131	14.773	33.978
1680	0.000	0.439	0.000	-0.035	-0.053	1.614	14.773	33.978
1695	0.000	0.442	0.000	-0.035	-0.053	1.135	14.770	33.971
1710	0.000	0.446	0.000	-0.039	-0.052	1.103	14.769	33.969
1725	0.000	0.451	0.000	-0.039	-0.055	1.176	14.770	33.971
1740	0.000	0.461	0.000	-0.038	-0.052	1.024	14.767	33.964
1755	0.000	0.462	0.000	-0.040	-0.055	1.204	14.764	33.957
1770	0.000	0.465	0.000	-0.042	-0.055	0.873	14.769	33.969
1785	0.000	0.469	0.000	-0.043	-0.052	1.034	14.768	33.966
1800	0.000	0.471	0.000	-0.045	-0.055	0.889	14.765	33.960

0000000

# Site 38 - Tidal Study, Pressure Transducer Data

Elapsed Tim	38GS01	38GS02	38GS03	38GS08	38GS21	TIDES	BAR-PSI	BAR-FEET
1815	0.000	0.477	0.000	-0.046	-0.056	0.819	14.764	33.957
1830	0.000	0.477	0.000	-0.049	-0.053	0.576	14.765	33.960
1845	0.000	0.475	0.000	-0.048	-0.056	0.652	14.765	33.960
1860	0.000	0.480	0.000	-0.048	-0.055	0.781	14.763	33.955
1875	0.000	0.475	0.000	-0.046	-0.055	0.870	14.766	33.962
1890	0.000	0.478	0.000	-0.049	-0.058	0.696	14.766	33.962
1905	0.000	0.472	0.000	-0.052	-0.055	0.681	14.764	33.957
1920	0.000	0.472	0.000	-0.054	-0.056	0.498	14.765	33.960
1935	0.000	0.468	0.000	-0.054	-0.053	0.362	14.766	33.962
1950	0.000	0.467	0.000	-0.052	-0.055	0.510	14.766	33.962
1965	0.000	0.458	0.000	-0.052	-0.059	0.359	14.767	33.964
1980	0.000	0.456	0.000	-0.052	-0.058	0.599	14.767	33.964
1995	0.000	0.446	0.000	-0.054	-0.055	0.258	14.766	33.962
2010	0.000	0.442	0.000	-0.054	-0.055	0.476	14.765	33.960
2025	0.000	0.438	0.000	-0.052	-0.055	0.025	14.767	33.964
2040	0.000	0.428	0.000	-0.054	-0.056	0.047	14.768	33.966
2055	0.000	0.420	0.000	-0.054	-0.055	0.113	14.768	33.966
2070	0.000	0.415	0.000	-0.054	-0.058	-0.088	14.769	33.969
2085	0.000	0.406	0.000	-0.056	-0.058	-0.242	14.769	33.969
2100	0.000	0.400	0.000	-0.058	-0.055	-0.148	14.769	33.969
2115	0.000	0.390	0.000	-0.059	-0.055	0.185	14.775	33.983
2130	0.000	0.377	0.000	-0.055	-0.055	-0.214	14.774	33.980
2145	0.000	0.378	0.000	-0.058	-0.055	-0.365	14.775	33.983
2160	0.000	0.363	0.000	-0.058	-0.055	-0.444	14.777	33.987
2175	0.000	0.363	0.000	-0.055	-0.055	-0.217	14.775	33.983
2190	0.000	0.354	0.000	-0.058	-0.056	-0.384	14.776	33.985
2205	0.000	0.342	0.000	-0.058	-0.055	-0.324	14.777	33.987
2220	0.000	0.338	0.000	-0.058	-0.055	-0.277	14.779	33.992
2235	0.000	0.328	0.000	-0.061	-0.056	-0.375	14.779	33.992
2250	0.000	0.318	0.000	-0.056	-0.053	-0.372	14.783	34.001
2265	0.000	0.308	0.000	-0.058	-0.055	-0.394	14.788	34.012
2280	0.000	0.302	0.000	-0.058	-0.055	-0.463	14.786	34.008
2295	0.000	0.296	0.000	-0.058	-0.056	-0.463	14.789	34.015
2310	0.000	0.287	0.000	-0.056	-0.052	-0.643	14.787	34.010
2325	0.000	0.285	0.000	-0.059	-0.049	-0.457	14.787	34.010
2340	0.000	0.277	0.000	-0.064	-0.052	-0.516	14.786	34.008
2355	0.000	0.270	0.000	-0.065	-0.052	-0.523	14.787	34.010
2370	0.000	0.266	0.000	-0.064	-0.053	-0.460	14.783	34.001
2385	0.000	0.263	0.000	-0.069	-0.053	-0.627	14.780	33.994
2400	0.000	0.257	0.000	-0.068	-0.053	-0.406	14.778	33.989

0000027

Site 38 - Tidal Study, Pressure Transducer Data

Elapsed Tim	38GS01	38GS02	38GS03	38GS08	38GS21	TIDES	BAR-PSI	BAR-FEET
2415	0.000	0.254	0.000	-0.068	-0.055	-0.201	14.773	33.978
2430	0.000	0.253	0.000	-0.071	-0.055	-0.378	14.768	33.966
2445	0.000	0.250	0.000	-0.069	-0.058	-0.422	14.764	33.957
2460	0.000	0.246	0.000	-0.072	-0.058	-0.384	14.762	33.953
2475	0.000	0.243	0.000	-0.072	-0.061	-0.018	14.756	33.939
2490	0.000	0.238	0.000	-0.072	-0.063	-0.422	14.752	33.930
2505	0.000	0.240	0.000	-0.075	-0.065	0.006	14.748	33.916
2520	0.000	0.235	0.000	-0.077	-0.065	-0.028	14.746	33.916



**Appendix G**  
**Section G.3**

**Groundwater Chemistry Analytical Data**

**PENSACOLA SITE 38  
WATER WET CHEMISTRY SAMPLES**

Key presented at end of Appendix. Data not shown in significant digits.

		ENSAFE ID:	38GI01	38GS03	38GS09	38GS15		
		LAB ID:	M410099*4	M410099*3	M410099*2	M410099*1		
		LAB RCVD:	01/07/94	01/07/94	01/07/94	01/07/94	.	.
PARAMETER	UNITS	-----						
W 5 Day BOD (SM 507)	mg/l	4.4000	1.6000	1.0000 U	3.2000	.	.	.
W Alkalinity as CaCO3	mg/l	250.0000	140.0000	88.0000	120.0000	.	.	.
W Chemical Oxygen Demand	mg/l	38.0000	160.0000	30.0000	35.0000	.	.	.
W Hardness as CaCO3	mg/l	180.0000	120.0000	79.0000	120.0000	.	.	.
W Kjeldahl Nitrogen-N	mg/l	1.6000	0.4100	0.1000 U	0.2300	.	.	.
W Nitrate-N	mg/l	0.1000	0.1000 U	0.1100	0.1000 U	.	.	.
W Phosphorus Total	mg/l	0.3500	0.6200	0.4700	0.0540	.	.	.
W Standard Plate Count	No/ml	46000.0000	5700.0000	8900.0000	4700.0000	.	.	.
W TSS (EPA 160.2)	mg/l	82.0000	290.0000	140.0000	39.0000	.	.	.

## **Appendix H**

### **USEPA Summary Contamination Assessment Report**



**DRAFT REMEDIAL INVESTIGATION REPORT FOR  
SITE 38**

**NAVAL AIR STATION  
PENSACOLA, FLORIDA**

**Prepared for:**

**BRAC TEAM  
NAVAL AIR STATION  
PENSACOLA, FLORIDA**

**Prepared by:**

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, REGION IV  
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**April 28, 1996**

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## **List of Acronyms**

The following list contains many of the acronyms, abbreviations, and units of measure used in this report.

<b>ABB-ES</b>	<b>ABB - Environmental Services</b>
<b>ARAR</b>	<b>Applicable Regulations and Rules</b>
<b>ASB</b>	<b>Analytical Support Branch, Environmental Services Division, US-EPA, Region IV</b>
<b>bls</b>	<b>Below Land Surface</b>
<b>CLP</b>	<b>Contract Laboratory Program</b>
<b>DQO</b>	<b>Data Quality Objective</b>
<b>E/A&amp;H</b>	<b>EnSafe/Allen &amp; Hoshall</b>
<b>E&amp;E</b>	<b>Ecology &amp; Environment, Inc</b>
<b>ECBSOPQAM</b>	<b>Environmental Compliance Branch Standard Operating Procedures and Quality Assurance Manual</b>
<b>ESAT</b>	<b>Environmental Services Assistance Team</b>
<b>FASP</b>	<b>Field Analytical Services Program</b>
<b>FDEP</b>	<b>Florida Department of Environmental Protection</b>
<b>FFB</b>	<b>Federal Facilities Branch, Waste Management Division, Region IV, US-EPA</b>
<b>FSA</b>	<b>Full Scan of Analysis</b>
<b>HWS</b>	<b>Hazardous Waste Section, Environmental Compliance Branch, Environmental Services Division, Region IV, US-EPA</b>
<b>msl</b>	<b>mean sea level</b>
<b>NAS Pensacola</b>	<b>Naval Air Station Pensacola</b>
<b>PRG</b>	<b>Preliminary remediation goal</b>
<b>QA</b>	<b>Quality Assurance</b>
<b>QC</b>	<b>Quality Control</b>
<b>RI</b>	<b>Remedial Investigation</b>
<b>SAP</b>	<b>Sampling and Analysis Plan</b>
<b>SOUTHNAVFACENGCOM</b>	<b>Southern Division, U.S. Navy, Naval Facilities Engineering Command</b>
<b>TAL</b>	<b>Target Analyte List</b>
<b>TCL</b>	<b>Target Compound List</b>
<b>US-EPA</b>	<b>United States Environmental Protection Agency</b>

## EXECUTIVE SUMMARY

This report is for Site 38 (Building 604, Former Building 71, and Building 26). The purpose of the Site 38 investigation was to adequately delineate the nature, magnitude, and extent of contaminated soil and groundwater, as defined by the screening values for the contaminants. Field activities performed during the site investigation included the advancement of soil borings, installation of permanent and temporary monitoring wells, and collection of soil and groundwater samples. Chemical analyses were performed by on-site mobile laboratories and US-EPA Region IV's laboratory. Field sampling, analytical methods, and reporting were conducted at U.S. Environmental Protection Agency Level II and IV protocols, as appropriate.

Surface and subsurface soil samples collected from Site 38 contained various heavy metals, cyanide, pesticides, semi-volatile and volatile organic compounds. Groundwater sampling at Site 38 successfully delineated the shallow groundwater contaminant plume, consisting of heavy metals, and chlorinated solvents. Significant contaminants included lead, cadmium, chromium, tetrachloroethene, trichloroethene, 1,2-dichloroethene, and vinyl chloride.

## 1.0 INTRODUCTION

NAS Pensacola is located in the Florida panhandle (see **Figure 1**). As part of the RI for NAS Pensacola, site investigations were completed by the NAS Pensacola BRAC Team at Site 38 (Building 604 Plating Shop, Building 26 Foundry, and Former Building 71 Old Plating Shop). This site falls under RI/FS Category VII of the *Revised 1995 Site Management Plan of the Installation Restoration Program for the Naval Air Station Pensacola, Pensacola, Florida* (Southern Division, U.S. Navy, Naval Facilities Engineering Command {SOUTHNAVFACENGCOM} 1995). Site 38 is a Remedial Investigation (RI) site. This investigation effort was led by the Hazardous Waste Section (HWS) of the Environmental Services Division (ESD), Region IV, US-EPA, at the request of the BRAC Team.

Primary references for this report include the *Sampling and Analysis Plan for Site 38 (Building 604), Site 44 (Building 3221)* (US-EPA, 1995), the *Remedial Investigation Report - Site 38* (EA&H), the United States Environmental Protection Agency (US-EPA) Region IV *Environmental Compliance Branch Standard Operating Procedures and Quality Assurance Manual* (ECBSOPQAM 1991), and the US-EPA Region IV *Analytical Support Branch Laboratory Operations and Quality Control Manual* (ASBLOQCM 1990).

Investigations included the advancement of soil borings, the installation of permanent and temporary monitoring wells, and the collection of soil and groundwater samples.

A three-phased approach was used during the field investigation of Site 38:

- **Phase I (nature and magnitude phase, previous RI).** Phase I activities were performed on all sites to identify the presence or absence of contaminants, based on comparison to the ARAR's established for these sites. This phase was performed during the previous



investigation of Site 38 by EA&H. As a result of this investigation, permanent monitoring wells were installed.

- **Phase II (delineation phase, the subject investigation).** During phase II groundwater and soil contamination was assessed through the installation of temporary monitoring wells, with additional sampling completed as necessary. Sampling strategies were based on the Phase I analytical results which included tailoring the analytical suite to specific analytes/compounds of concern. Recommendations for permanent monitoring well locations were proposed during this investigation.

- **Phase III (confirmation phase, the subject investigation).** Phase III field work included the installation of permanent monitoring wells to replace temporary monitoring wells. These were used to confirm contamination delineation and provide data for the baseline risk assessment. Phase III permanent wells are also part of a base-wide periodic groundwater monitoring program.

Chemical analyses were performed by on-site mobile FASP laboratories operating under US-EPA's ESAT contract, and at the US-EPA Region IV laboratory in Athens, GA. Data from the mobile laboratories was reported at Level II protocol, all other data were reported at Level IV protocol.

#### **Soil PRGs**

- Risk-based concentrations for residential soil, as derived from the US-EPA Region III Contaminant of Concern Screening Table (US-EPA 1994a).

- Selected soil cleanup goals based on an aggregate or child resident scenario (lowest level) as derived from the FDEP list of Cleanup Goals for the Military Sites in Florida (FDEP 1995).
- EPA. Office of Solid Waste and Emergency Response draft revised Interim Soil Lead Guidance (US-EPA 1994b).

#### **Groundwater ARAR's**

- USEPA Maximum Contaminant Levels (US-EPA 1995)
- Florida Primary Drinking Water Standards (FDEP 1994)
- USEPA Secondary Maximum Contaminant Levels (US-EPA 1995)
- Florida Secondary Drinking Water Standards (FDEP 1994)
- Florida Groundwater Guidance Concentrations (FDEP 1994)

This report provides sufficient data for the completion of a baseline risk assessment (BRA).

## **2.0 BACKGROUND INFORMATION**

### **2.1 Site Descriptions and Histories**

#### **Site 38**

Site 38 is in the southeastern portion of NAS Pensacola, next to Pensacola Bay, as shown in **Figure 2**. This site includes the former Building 71, Building 604, the associated IWTP sewer line (which was not examined in this investigation), and Building 26 which contains the former foundry operations. Building 71 was used from 1935 to the late 1970's for aircraft paint stripping and painting operations. A 1970 addition to the southwest corner of Building 604 has been in continuous use as a metal plating operation. Both of these facilities discharged wastes to the IWTP without any prior treatment or segregation.

As a result of this investigation, Building 738 (former dry cleaning operation) was added to the study area. There is currently no information available on the dates of operation, materials used, or disposal practices of the former dry cleaning facility.

### **2.2 Physical Setting**

Climatology, surface water hydrology, physiography, and hydrogeology for NAS Pensacola in general and Site 38 specifically are detailed in the Site 38 RI report (1992).



### **3.0 METHODOLOGY**

The methods used for this investigation included the advancement of soil borings, the installation of permanent and temporary groundwater monitoring wells, and the collection of soil and groundwater samples.

#### **3.1 Sampling Objectives**

The objectives of the field sampling effort were to delineate the nature and extent of contamination at site 38.

#### **3.2 Sampling and Analyses**

The sampling and analyses performed for these investigations are discussed in this section. The number of samples by medium is also listed. Changes to the field sampling plan were made in the field by the project leader after consultation with team members who were present. The most significant change was the extension of the investigation northward to Building 738, when it became apparent that the chlorinated solvent plume was not confined to the immediate area of Building 604.

Thirty-seven groundwater samples were collected from temporary monitoring wells and analyzed on-site in mobile laboratories provided by US-EPA via the FASP contract. Analytes and quantitation limits are as shown in **Table 1**. Samples for inorganic analysis were not digested (with one exception), and the resulting data must be considered to reflect the dissolved fraction. This strategy enabled the mobile laboratories to return data to the sampling team within 16 hours of receiving the samples. The selection of analytes for the mobile laboratories was based upon the results of the Site 38 RI. Specifically, the chosen

contaminants were present at levels above their screening values and their extent was not previously defined.

The US-EPA CLP Target Analyte List/Target Compound List (TAL/TCL) was used to provide a full spectrum of legally defensible contaminant analyses for the remaining samples, with the exception of pesticides. All Level IV groundwater samples were analyzed for pesticides, but only twenty-one of the seventy-three soil samples because pesticides were anticipated to be present only from application, not disposal, mixing, etc.

#### **Analytical Organization**

**Full Scan Analysis (FSA)** The parameters include TAL metals (unfiltered), TCL cyanide, TCL pesticides, TCL polychlorinated biphenyls, TCL base-neutral/acid extractable organic compounds, and TCL volatile organic compounds.

**Full Scan Analysis\No Pesticides-PCB's (FSA\NP)** - The parameters include TAL metals (unfiltered), TCL cyanide, TCL base-neutral/acid extractable organic compounds, and TCL volatile organic compounds.

**Mobile Laboratory Parameters (MLP)** - The parameters include cadmium, lead, chromium, 1,2-dichloroethene (total), tetrachloroethene, trichloroethene, and vinyl chloride.

### **3.3 Sample Locations and Rationale**

The sampling program is described in this section. One intermediate depth permanent well was installed and sampled at Site 38 in the vicinity of former Building 71. and one intermediate depth permanent well. These wells were installed to address an identified data gap from the Site 38 in the intermediate aquifer.

The four previously installed intermediate depth wells at Building 604 were re-sampled to provide additional data.

#### **3.3.1 Soil Sampling Strategy**

Grab soil samples were collected from all temporary monitoring well borings at the surface and the groundwater interface. FSA was conducted on soil samples collected from 21 of these borings, and these samples were collected from unpaved areas. The remaining samples (52 total) were analyzed for FSA\NP.

Grab soil samples were collected from all permanent monitoring well borings at the surface and the groundwater interface. FSA was conducted on all of these soil samples. South of the former UST, visible staining on Building 604's brick facade indicated areas of possible soil contamination. Five surface and two subsurface soil samples were collected from this area.

In Building 26 one surface soil composite sample was collected and analyzed for FSA and TCLP metals.



### **3.3.2 Groundwater Sampling Strategy**

Groundwater samples were collected from temporary and permanent monitoring wells. Thirty-six temporary wells were installed, seventeen more than the nineteen originally proposed. All groundwater samples from temporary wells were analyzed for MLP. Based upon this data, locations for permanent shallow wells were selected in the field and these permanent wells were then installed and sampled for FSA.

A single temporary monitoring well was proposed to be installed through the dirt floor of Building 26 (former foundry), but this could not be completed. A discussion of the investigation of Building 26 is presented in Section 5.2.1.

The pre-selected locations for the temporary monitoring wells were based upon data contained in the Site 38 RI report. Once these temporary wells were sampled and analyzed, the data was analyzed using a simple commercial modeling program (Surfer for Windows, v5.01). The results of the modeling program were then used to select additional monitoring well locations. These were then sampled, and the data added to the model. This process was continued until the plume was adequately delineated.

### **3.4 Sampling Procedures**

The sampling procedures used were consistent with the ECBSOPQAM.

#### **3.4.1 Soil Sampling**

Soil borings were advanced using hollow-stem auger drilling techniques or hand augers, as appropriate. Soil sampling was performed using stainless steel split-barrel samplers or taken directly from the stainless steel hand augers in accordance with the ECBSOPQAM.

#### **3.4.2 Monitoring Well Installation**

Temporary and permanent monitoring well borings were advanced in accordance with the ECBSOPQAM. Shallow temporary wells were installed using a hand auger. One intermediate depth temporary well was installed using the drill rig. Permanent monitoring wells were installed using hollow-stem auger drilling techniques. Because of possible floating contaminants, shallow monitoring wells were installed such that the well screen bracketed the water table.

Upon completion, the monitoring wells were developed. Development continued until the water withdrawn was as free of turbidity as possible given the lithology of the screened interval and pH, temperature, and specific conductivity were stabilized. These measurements were recorded. Turbidity, pH, specific conductance, and temperature values recorded immediately prior to sampling are present in **Appendix C**.

#### **3.4.3 Groundwater Sampling**

Groundwater was sampled in accordance with the ECBSOPQAM. Permanent and temporary shallow wells were purged and sampled using a peristaltic pump/vacuum jug method. This method uses a peristaltic pump and dedicated, decontaminated, 0.25-inch outside diameter Teflon tubing to purge a well at a slow, controlled, pumping rate (varying from 0.04 to 0.25

gallons per minute). To prevent potential loss of volatiles, samples collected for volatile organic compounds were collected by disconnecting the tubing from the pump, and allowing the water in the tube to drain into the sample vials. Groundwater samples were collected at the top of the water column and were as clear as possible given the subsurface geology (10 NTU or less in nearly every case). Field parameters recorded during groundwater sampling included organic vapor levels, pH, temperature, specific conductivity, and turbidity.

### **3.5 Sample Identification**

Samples were designated using the following system:

**XX-YYY-ZZZ**

Where

<b>XX</b>	<b>=</b>	<b>Sample Media or Site Number</b>
<b>YYY</b>	<b>=</b>	<b>Location and Type Designator</b>
<b>ZZZ</b>	<b>=</b>	<b>Sample Number</b>

For example, GW-T01-001 designates the first (001) groundwater sample (GW) collected from temporary well #1 (T01). Similarly, SF-T01-001 is the first (001) surface soil sample (SF) collected at temporary well #1 (T01).

Following are example designators for the remaining sample types:

<b>SB-T01-001</b>	<b>First subsurface soil collected at temporary well #1</b>
<b>38-I##-001</b>	<b>First groundwater sample from permanent intermediate well I## (## to be replaced by the number designation assigned to the well).</b>



38-S##-001 First groundwater sample from permanent shallow well S## (## to be replaced by the number designation previously assigned to the well).

### **3.6 Cadastral Survey**

A geodetic survey was performed using global positioning system surveying equipment in accordance with manufacturer's specifications. EA&H performed the survey.

### **3.7 Decontamination**

Decontamination procedures were in accordance with the ECBSOPQAM. A large portable decontamination pad was constructed near the Command Post.

### **3.8 Investigation-Derived Wastes**

Investigation-derived wastes were drummed, labeled, and left at the source areas.

#### **4.0 QUALITY ASSURANCE PLAN**

A number of quality assurance samples were collected in the field to determine the effectiveness of field procedures. Analytical results are summarized in **Tables 2 and 3**. **QA-001-ERB** was a blank water sample collected from field cleaned equipment. Low concentrations of calcium, magnesium, iron, methyl isobutylketone (MIK), and acetaldehyde were reported, but these are not significant. **QA-001-TBW** was the purgeable organic trip blank, and no contaminants were reported. **QA-001-DRB** was a potable water sample collected from the water tank of the drill rig. A number of metals, cyclohexane compounds and halomethanes were reported. The types and concentrations of heavy metals reported are not significant. The halomethanes are typical of chlorinated water supplies and cannot be avoided. Their presence is not significant. The presence of cyclohexanes is potentially a more serious problem, but they were not reported in any of the well samples and therefore had no impact on this study. **QA-001-PRB** was a post-sampling of the preservatives used in the field. No contaminants were reported. **QA-001-WBS** was a blank collected from the organic free water system used in the field. No contaminants were detected. Two soil trip blanks, **QA-001-TBS** and **QA-002-TBS** were also analyzed. No contaminants were detected.

In addition, the groundwater sample collected from temporary monitoring well **GW-T03** was split for digestion and analysis for total metals by the mobile lab. This was done to indicate the effectiveness of sample analysis without digestion. Sample **GW-T03-001** (split **GW-T03-D01**) was selected because it had the highest recorded turbidity (54.1 NTU). The analytical results (**Table 8**) indicated little if any impact upon the data.

Laboratory quality assurance was in accordance with the ASBLOQCM (1990).

## **5.0 RESULTS AND DISCUSSION**

### **5.1 Site 38 Perceived Data Gaps**

This small data set consists of surface and subsurface soil data, and samples collected from intermediate depth wells that were collected as part of the RI effort at Site 38, but was not directly related to samples collected during delineation of the shallow groundwater contaminant plume.

#### **5.1.1 Foundry**

Sample SF-T21-001 (Figure 3, Table 4) was a composite surface soil sample collected during an aborted attempt to install a temporary well in the former foundry (Building 26). This sample contained very high levels of heavy metals (lead 11000 mg/kg, cadmium 260 mg/kg, TCLP lead 2162A mg/kg) and elevated levels of various semivolatile compounds. Cyanide was also present, but at very low levels. No pesticide/PCB, or purgeable organic compounds were detected.

While trying to install a temporary well, it was discovered that an approximately one foot thick layer of clay was present beneath the sand at a depth of approximately 36 inches. Immediately beneath the clay was a layer of concrete of undetermined depth. If there is an intact concrete sidewall present, the combination of concrete and clay should provide an effective barrier to groundwater contamination.



#### 5.1.2 Building 71 Soils

Surface and subsurface soil sampling stations are shown in **Figure 3**. Analytical data is summarized in **Table 4**. Surface soil samples collected in this area of the site contained several contaminants, including heavy metals, petroleum solvents, and chlorinated solvents. No cyanide, pesticides, PCB's, or semivolatile organic compounds were reported.

Two of the subsurface soil samples (**SB-I10-001**, and **SB-S23-001**) were relatively uncontaminated, with **SB-I10-001** containing low levels of heavy metals, petroleum product (oil), and dichlorobenzene. **SB-S23-001** contained low levels of heavy metals. Cyanide, pesticides, and PCB's were not reported for these samples (**SB-S23-001** was not analyzed for pesticides). The remaining sample from this group, **SB-T05-001** was heavily contaminated with various extractable organic compounds, chlorinated solvents, and petroleum solvents. This sample was easily the most contaminated of all the subsurface soil samples collected prior to well installation during this investigation.

#### 5.1.3 Intermediate Aquifer

Monitoring locations are shown in **Figure 3**. Analytical data is summarized in **Table 5**.

One intermediate depth permanent well (**38-I10-001**, which was initially noted as **38-I06-001** in field records) and one intermediate depth temporary well (**GW-T05-001**) were installed and sampled to address an identified data gap in the groundwater data at the southwestern portion of Site 38 (Building 71).

The two wells installed and sampled near former Building 71 were much more heavily contaminated than previous intermediate depth wells installed in this area. These wells contained barium, chromium and zinc, among other heavy metals. Sample **GW-T05-001** also contained trace amounts of lead, naphthalene, and phenanthrene. In addition, both samples also had low levels of 1,1,1-trichloroethane and tetrachloroethene. Sample **GW-T05-001** also contained low concentrations of 1,1-dichloroethane and trichloroethene. The previous investigation of the intermediate aquifer in this area found no chlorinated solvents.

The current investigation has provided evidence for low levels of contamination in the intermediate aquifer in the area of former Building 71. The source of these contaminants is probably the shallow zone of this aquifer which is immediately above, and is heavily contaminated with these materials. This would indicate that there is no need for more monitoring wells in the intermediate aquifer in this area.

**Figure 3** presents the monitoring well locations for the intermediate aquifer that were resampled in the area of Building 604. No graphic is presented showing contaminant plume contours because of insufficient data.

Three of the four wells at Building 604 contained low levels of vinyl chloride, but no other significant contaminants were reported. The previous round of sampling for these wells reported no chlorinated solvents present. It is difficult to draw conclusions from such a limited data set, but one obvious interpretation is that no significant contaminants are currently present in this zone. There is direct evidence for this in that two of the most severely contaminated shallow wells (**38-GS04**, **38-GS08**, not re-sampled for this investigation) were paired with intermediate depth wells (**38-GI04**, and **38-GI08**) that were resampled for the current investigation, with vinyl chloride being the only significant contaminant reported (4.2 and 1.9



ug\l. respectively). The source of the vinyl chloride is probably the heavily contaminated shallow zone of this aquifer, which is immediately above. This would indicate that there is no need for additional study of the intermediate aquifer in this area.

#### 5.1.4 Seawall Description

One of the identified data gaps at Site 38 was the question of whether or not the seawall along the southern boundary of the site might be having some effect upon the shallow groundwater. While it was beyond the scope of the current investigation to investigate the seawall, an observation concerning the seawall may be made. As a result of Hurricane Opal, the backfill behind the seawall (landward side) was washed away from a small portion of the wall, permitting an unobstructed view of the base of the structure for some 10 feet. From this observation, it was noted that the seawall is actually constructed on a shallow footer, the base of which is slightly above groundwater level. As a result of this, the impact of the seawall upon groundwater (and thus contaminant) flow would probably be little, if any.

#### 5.2 Site 38 Shallow Aquifer

The groundwater investigation of building 604 was the primary thrust of this investigation, and the discussion will consist of several parts, consistent with the field effort. The investigation was begun by installing and sampling temporary wells in the vicinity of Building 604, analyzing the water samples overnight for various metals and chlorinated solvents, and evaluating/ interpreting the data the following morning. This process was repeated until the shallow contaminant plumes were adequately delineated. Once plume delineation was



completed, a series of permanent shallow monitoring wells were installed and sampled, with the samples going to a fixed-base laboratory for DQO Level IV analysis for confirmation of the screening results. The permanent well locations were chosen to enhance the existing monitoring well network, and several of the existing shallow wells were re-sampled during this effort to provide a unified data set. The figures showing contours of the various contaminants were generated using the Surfer for Windows v5.01 and the combined data set of the original EA&H data, data from temporary wells installed by EA&H for investigation of the IWTP sewer line in the extreme eastern portion of the site (trichloroethene only), ESD's temporary well data, and ESD's permanent well data. It must be categorically stated that the contour maps are simply a qualitative graphical presentation of the data, and must not be considered to absolutely represent site conditions. The analytical data is presented in **Tables 6 through 11**. The data is presented by primary constituents of the contaminant plumes.

#### 5.2.1 Tetrachloroethene

As seen in **Figure 4**, there are two distinct areas of tetrachloroethene groundwater contamination at Site 38. The plume in the southwest corner of the site appears to originate in the vicinity of former **Building 71** and continue to the seawall. The highest concentration was detected in well **38-GS12** at 33 ug/l (EA&H data point), and several of the wells around this location had concentrations of less than 5 ug/l. This small plume could be better defined with additional wells and sampling, but there is probably little information of real value to be obtained. The source is probably the past painting/stripping operations in former **Building 71**.

The primary area of tetrachloroethene contamination for site 38 is in the area of **Building 604**. As shown by **Figure 4**, there are three primary source areas for the plume.

The northernmost source is most likely the former dry cleaning operation at Building 738, which was an unexpected finding of this investigation. The highest concentration detected was in sample **GW-T31-001** (a temporary well installed by ESD) at 130JNE ug/l. Smaller concentrations (less than 2 ug/l were detected in **38-S27-001** and **38-S31-001** (two of the new permanent wells installed during this investigation). The plume is likely to be smaller than indicated by the model (there were no other detections of tetrachloroethene in the other wells in this area), but the plume is adequately defined for planning purposes.

The central source area is Building 604, in the area of the former metal plating operation. This plume is considerably larger than the plume coming from the former dry cleaning operation. The highest concentrations reported were 280 ug/l (**38-GS21**), and 240 ug/l (**38-GS19**). Both of these wells were installed and sampled by EA&H during the original site investigation. A contaminant plume of 5 ug/l or greater was defined by this investigation as lying immediately beneath the footprint of the former plating operation at Building 604, and continuing northeast beneath the southwest corner of the original building 604, and the northwest corner of the parking lot (refer to **Figure 4**). The most likely source for this plume is a former TCE Tank (*Preliminary Environmental Assessment Report Building 604-Consolidated Plating Facility Addition*, Bassett, 1995) that was located along the eastern wall of the Building 604 extension that housed the former plating operation.

Another unexpected result of this study was the finding of the contaminant plume at PortOps (see **Figure 4**). The highest reported concentrations were 820 ug/l from sample **38-S32-001**, collected from a permanent well installed by ESD, and 100 ug/l from **GW-T03-001**, collected from a temporary well installed by ESD. This plume is nearly as large as the plume found beneath Building 604, but it is not quite as well defined (although the definition is still adequate for planning purposes). It is possible that this plume discharges to Pensacola Bay via



the slip adjacent to PortOps. The source for this plume is unknown, but a storm sewer grate was observed in the parking lot near well 38-S32, and a collapsed storm drain (possibly indicating erosion from a leak) was also observed in the parking lot, down gradient of the drain.

#### 5.2.2 Trichloroethene

The pattern of distribution for trichloroethene contamination at site 38 is distinctly similar to tetrachloroethene, but with some important differences, as seen in **Figure 5**. Primary differences include the lack of a plume in the area of the former dry cleaning operation (Building 738), and the much lower concentrations (typically less than 25 ug/l).

The southwestern plume again appears to originate at former building 71, and continue south to the seawall, discharging to Pensacola Bay. The highest concentration of this plume was detected in 38-GS12, a well installed and sampled by EA&H. Concentrations of less than 5 ug/l were reported in wells 38-GS13, and 38-GS05 (EA&H data points). The source of this plume could be either a TCE release in the same area as the tetrachloroethene release, or it could be a result of the breakdown of the tetrachloroethene.

A second contaminant plume can be found in the area of Building 604, near the former plating operations area. The highest concentrations reported were in 38-GS08 (33 ug/l) and 38-GS19 (41 ug/l). Both wells were installed and sampled by EA&H. The footprint of the plume boundary (as defined by 5 ug/l in the model) covers approximately half of Building 604, and nearly all of the parking lot immediately south of the former plating area, apparently merging with the plume in front of PortOps. This plume appears to be well defined, and further



evaluation is not required. As with the plume in the southwestern corner of Site 38, the source of this plume could be either a separate release in the same area as the tetrachloroethene release, or result from the breakdown of tetrachloroethene.

As with tetrachloroethene, a TCE contamination plume was found in front of PortOps. The highest concentrations reported (see **Table 6**) were 340 ug/l in sample **38-S32-001** (permanent well installed and sampled by ESD), and 58JN ug/l in sample **GW-T03-001** (temporary well installed and sampled by ESD). As with the tetrachloroethene plume, the TCE may be discharging to Pensacola Bay at the slip adjacent to PortOps. Again, the source of this plume could be either a separate release in the same area as the tetrachloroethene release, or result from the breakdown of tetrachloroethene.

#### 5.2.3 1,2-Dichloroethene

As with the previous two contaminants, there are two areas of contamination, as shown in **Figure 6**. Again, there are distinct similarities and differences between the plumes, as noted below.

The southwestern plume again appears to originate in the vicinity of former building 71. The highest reported concentration was again at **38-GS12**, 14J ug/l. 1,2-dichloroethene was also reported in **38-GS02** and **38-GS03** at 2.0J ug/l. All of these wells were installed and sampled as part of the EA&H effort. Sample **38-S23-001** (permanent well installed and sampled by ESD) was also contaminated at 0.74AJ ug/l. These data indicate that 1,2-dichloroethene is discharging to Pensacola Bay at low levels. Again, the source of this plume could be either a

separate release in the same area as the tetrachloroethene release, or result from the breakdown of tetrachloroethene.

**Figure 6** indicates a source of 1,2-dichloroethene in the area of the former plating operations at Building 604. The highest concentrations are reported from the EA&H effort with 980 ug/l (38-GS20), 130 ug/l (38-GS19), and 100J ug/l (38-GS21), considerably higher than TCE at the same locations. In addition, during the current investigation ESD resampled 38-GS17 where previous sampling had indicated no detectable 1,2-dichloroethene. This sample (38-S17-001, see **Table 7**) contained 460 ug/l of cis-1,2-dichloroethene (14J ug/l of trans-1,2-dichloroethene). Again, the source of this plume could be either a separate release in the same area as the tetrachloroethene release, or result from the breakdown of tetrachloroethene.

The final source area is again immediately in front of PortOps. The highest reported concentrations, 640 ug/l cis, and 43J ug/l trans, were again in sample 38-S32-001, a permanent well installed and sampled by ESD. As with the previously discussed chlorinated solvents, this contaminant may be discharging to Pensacola Bay via the slip adjacent to PortOps. Again, the source of this plume could be either a separate release in the same area as the tetrachloroethene release, or result from the breakdown of tetrachloroethene.

#### 5.2.4 Vinyl Chloride

Unlike the previously discussed contaminants, the data set for vinyl chloride is substantially different in that the minimum quantitation limit of 50 ug/l of the mobile laboratory was substantially higher than the ESD or EA&H laboratory. As a result, **Figure 7** fails to depict a



small contaminant plume in the southwest corner of Site 38. Nonetheless, the model provides a valuable picture in describing how vinyl chloride is distributed across Site 38.

Monitoring well **38-GS02**, which lies southeast of former Building 71, contained the highest reported concentration (12J ug/l) of vinyl chloride reported by EA&H in this portion of Site 38. With the addition of 2.0 ug/l reported in sample **38-S23-001** (from a permanent well installed and sampled during this investigation), there is supporting evidence of a small vinyl chloride plume in this area, again discharging to Pensacola Bay.

The most significant vinyl chloride contaminant plume is found at Building 604, near the former plating operations. The highest concentration reported in this plume is 3,700 ug/l, in sample **38-S17-001**, an EA&H well resampled by ESD during this investigation. Another extremely highly value, 1,300 ug/l, was reported by EA&H in well **38-GS20**. As seen in the figure, the plume appears to be centered in the parking lot immediately south of Building 604. The vinyl chloride observed in this plume is almost certainly a result of the breakdown of 1,2-dichloroethene, or 1,1-dichloroethene. This is because it is highly unlikely that vinyl chloride was ever used in Building 604 in great quantity.

There is a much smaller, but still significant, vinyl chloride plume in front of PortOps. Vinyl chloride was detected in a single sample collected from this area, **38-S32-001**, at 130 ug/l. This was a sample from a permanent well installed by ESD during the current investigation. Vinyl chloride may not be discharging to Pensacola Bay via the PortOps slip, as the concentration quickly diminishes. This may be due to the extremely high volatility of vinyl chloride. Again, this contaminant is almost certainly present in the environment as the result of the breakdown of other chlorinated solvents (dichloroethene), and is unlikely to have been directly released.



#### 5.2.5 Chromium

Chromium is found in two very distinct areas at Site 38 (**Figure 8**). There is a small contaminant plume in the southwestern portion of the site, and a much larger plume originating from the area of plating operations in Building 604.

The southwestern plume again appears to originate in the area of former Building 71. The highest reported concentrations are 326 ug/l (**38-GS12**), and 184 ug/l (**38-GS13**). Both values are from the EA&H investigation. While the plume is physically very small and well defined, its extension to the seawall indicates that it is discharging to Pensacola Bay. The source of this plume is almost certainly the past plating operations of former Building 71.

The plume in the area of Building 604 is centered in the area of the plating operations. The plume is well defined, extending south to just past the southern end of Building 604. The highest reported concentrations were 544 ug/l (**38-GS19**), 378 ug/l (**38-GS20**), and 297 ug/l (**38-GS21**). These wells were all sampled by EA&H during the previous investigation. A sample collected from a temporary well installed by ESD during the current investigation (**GW-T30-001**) contained 280 ug/l of chromium. The plume appears to extend from well inside the original structure of Building 604, beneath the plating area, and slightly into the parking lot. There is no counterpart to this plume in front of PortOps, and the plume does not appear to be extending to Pensacola Bay. The only known source for this material is the former plating operations at Building 604.

#### 5.2.6 Cadmium

Like chromium, cadmium can be seen on Site 38 in two distinct contaminant plumes, although with minor differences (see **Figure 9**).

The smaller of the two plumes again originates in the area of former Building 71, extending south to the seawall. The highest reported concentrations were 9.7 ug/l (38-GS05) and 11 ug/l (38-GS13). Both of these samples were collected by EA&H. The plume appears to be discharging to Pensacola Bay. The only known source for this material is the past plating operations at former Building 71.

The cadmium plume at Building 604 is much larger, and is centered on the area of the former plating operations, extending south to the southern edge of the building, and somewhat into the parking lot. It also may extend completely beneath the plating area, as two samples collected immediately west of Building 604 also contained high levels of cadmium. Sample GW-T08-001, (see **Table 8**), collected from an ESD installed temporary well contained 68 ug/l, and 38-S24-001 collected from an ESD installed permanent well, contained 11 ug/l. The highest concentrations in this plume were 382 ug/l (38-GS19) and 336 ug/l (38-GS21), both reported by EA&H from the previous investigation. Like chromium, the cadmium contamination has no counterpart plume in front of PortOps, and does not appear to be discharging to Pensacola Bay. The only known source for this plume is the former plating operations at Building 604.

#### 5.2.7 Lead

**Figure 10** presents a graphic presentation of the lead data for Site 38. It must be noted that the model is exhibiting several artifacts, chiefly on the western edge and southeastern corner of the investigation area. These are chiefly edge effects as the model nears the physical limits of the study. The model does, however, clearly indicate that there are at least two distinct source areas for lead groundwater contamination, and possibly more.

There is a very distinct contaminant plume in the southwestern corner of Site 38, originating from beneath the former **Building 71**. The highest concentrations in this plume are 362J ug/l at **38-GS02B**, and 280 ug/l at **38-GS12** (both data points are from the EA&H investigation).

There is another area of high concentration near the area of the former plating operations at **Building 604**. The highest reported concentration in this plume is 639 ug/l at **38-GS21**, an EA&H data point. This plume, as defined in the current investigation most likely does not extend south to **Building 44**, as depicted by the model. Evidence for this is the fact that lead was not detected in samples **38-S09-001**, and **38-S07-001** (two EA&H wells resampled by ESD) and was only 5.3 ug/l in sample **38-S18-001** (another EA&H well resampled by ESD). In addition, **38-S29-001** (collected from a permanent well installed and sampled by ESD) also had no reported lead. Finally, **38-GS16** (an EA&H data point) had a reported concentration of 11J ug/l lead. This series of data points running along the southern edge of this plume are strong evidence that this plume has not migrated far from the point of release. There are indications of a smaller release in the area of **38-GS-14** an EA&H data point with a reported concentration of 118 ug/l. The primary source for this plume appears to be the former plating operations within **Building 604**.



As with cadmium and chromium, there is no counterpart to this plume in front of PortOps. There are, however, nine outlier, or apparent hotspots with no potential source on record that require discussion.

It is probably no coincidence that six of these nine outliers are found along South Avenue. Five of these data points were generated during this investigation, and the sixth (38-GS01) during the EA&H study. The concentrations of these samples ranged from 276 ug/l at 38-GS01, to 23 ug/l at GW-T06-001, a sample collected from a temporary well installed during this investigation. The source of this contamination is unknown, but since it appears to be associated with South Avenue, it may be related to either vehicular traffic or possibly an underground utility such as a storm drain.

The remaining three outliers have no apparent pattern. One elevated concentration was reported in sample GW-T19-001, 110 ug/l, collected from a temporary well installed during this investigation. 64 ug/l was reported in sample GW-T34-001, another temporary well of this investigation, and 34 ug/l was reported in sample GW-T33-001, another temporary well of this investigation. Given the current, limited, data set, there appears to be no specific source of lead that can be associated with these samples.

### 5.3 Building 604 Soils

Seventy-two grab soil samples (thirty-six surface and thirty-six subsurface) were collected from Site 38 in the area of Building 604 (other miscellaneous soil sampling at Site 38 was previously discussed).

### 5.3.1 Surface Soil

Surface soil data is presented in **Tables 12 through 15**. **Figure 11** presents the station locations. No graphic representation of the data was performed due to the difficulties inherent in modeling soil data. Contaminant concentration comparisons have been made for the following heavy metals, with their surface soil PRG's set as specified: arsenic - 0.8 mg/kg, cadmium - 3.9 mg/kg, chromium - 39 mg/kg, and lead - 400 mg/kg. Only the arsenic value was exceeded.

Eight of the thirty-six surface soil samples collected contained arsenic above its PRG of 0.8 mg/kg. Sample **ST-T14-001** (temporary well **T14**, later converted to permanent well **38-S29**, located in the Building 604 parking lot) contained the highest reported concentration of arsenic at 8.7 mg/kg. There was no discernible pattern to the remaining arsenic contaminated soil samples.

### 5.3.2 Subsurface Soils

**Tables 16 through 19** contain the summarized analytical data for these samples. No PRG's have been established for subsurface soils at N.A.S. Pensacola. As a conservative estimate, the surface soil PRG's were used (arsenic, cadmium, chromium, and lead). Again, only arsenic exceeded its PRG, in three samples. The highest concentration, 3.4 mg/kg, was reported in sample **SB-T18-001**, a temporary well located between the sidewalk and Building 44, on the South Avenue side (see **Figure 12**). No pattern was noted in the distribution of arsenic contamination in subsurface soil samples.

## 5.4 Recommendations

The following recommendations are made to address the remaining data gaps not addressed by this investigation or report. There are two issues to be addressed: further monitoring of the intermediate aquifer and lead contamination in the shallow zone.

### 5.4.1 Intermediate Aquifer

A final round of sampling and analysis of the intermediate depth wells in the area of former Building 71 is recommended. This is because of the discrepancy within the current data set between the prior study by EA&H with the result of no chlorinated solvents and heavy metals in this area, and the ESD's reporting of significant findings. No additional monitoring wells are recommended at this time. This additional work can wait until the design phase is reached.

A permanent intermediate depth well is recommended to be paired with well 38-S28, a shallow well upgradient of the chlorinated solvents/heavy metals contaminant plumes associated with the former dry cleaners, Building 604, and PortOps. This well is needed to assess control conditions for this zone of the aquifer at these three sites. This well installation can wait until the design phase is reached.

A well cluster ( one permanent shallow and one permanent intermediate well) is recommended for the southeast corner of the former dry cleaner (vicinity of temporary well GW-T31). This would provide a permanent monitoring station for this area for remediation. This also can wait until the design phase is underway.



Finally, an intermediate depth well should be paired with the permanent shallow well that was installed in front of PortOps during this investigation (38-S32). This well is needed to provide information on this zone for remediation purposes. This well can also wait until the design phase.

#### 5.4.2 Lead Contamination

The lead contamination in groundwater found during this investigation is much more difficult to deal with. The data from this study indicates that lead contamination in the shallow aquifer in this portion of the N.A.S. Pensacola cannot always be attributed to known sources. To fully characterize this contaminant will require a much greater effort, specifically aimed at lead. Because of the unknown magnitude of the lead contamination, it would be difficult to postpone this effort to the design phase, where the scope of the problem should already be known. The distribution of the lead contamination indicates that while lead contamination in certain areas of the site can be attributed to known sources, significant contamination can also be attributed to unknown sources, and as such may constitute an unidentified site.

If additional data regarding the sources of lead to the shallow aquifer in this area cannot be obtained, it is recommended that a more comprehensive probabilistic study of the plume(s) be initiated.

## APPENDIX D

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 88 SAMPLE TYPE: BLKWA  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: QA-001-ERB

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1520 STOP: 00/00/00

ANALYTICAL RESULTS

MG/L

ANALYTICAL RESULTS

2.0U	SILVER	0.11	CALCIUM
6.0U	ARSENIC	0.032	MAGNESIUM
NA	BORON	0.016	IRON
2.0U	BARIUM	0.40U	SODIUM
1.0U	BERYLLIUM	0.40U	POTASSIUM
1.0U	CADMIUM		
2.0U	COBALT		
2.0U	CHROMIUM		
2.0U	COPPER		
2.0U	MOLYBDENUM		
4.0U	NICKEL		
8.0U	LEAD		
8.0U	ANTIMONY		
8.0U	SELENIUM		
5.0U	TIN		
2.0U	STRONTIUM		
10U	TELLURIUM		
2.0U	TITANIUM		
20U	THALLIUM		
2.0U	VANADIUM		
2.0U	YTTRIUM		
2.0U	ZINC		
NA	ZIRCONIUM		
0.2U	MERCURY		
40U	ALUMINUM		
2.0U	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORG. CS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 88  
SOURCE: NAS PENSACOLA  
STATION ID: QA-001-ERR  
SAMPLE AND ANALYSIS  
EPA REGION IV ES  
AGEMENT SYSTEM  
ATHENS, GA.  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1520 STOP: 00/00/00  
4/95

ANALYTICAL RESULTS									
UG/L									
5.00	CHLOROMETHANE								CIS-1,3-DICHLOROPROPENE
1.00	VINYL CHLORIDE								METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE								TOLUENE
5.00	CHLOROETHANE								TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE								1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)								TETRACHLOROETHENE (TETRACHLOROETHYLENE)
500	ACETONE								1,3-DICHLOROPROPANE
120	CARBON DISULFIDE								METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE								DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE								CHLOROBENZENE
5.00	1,1-DICHLOROETHANE								1,1,1,2-TETRACHLOROETHANE
5.00	CIS-1,2-DICHLOROETHENE								ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE								(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE								O-XYLENE
5.00	BROMOCHLOROMETHANE								STYRENE
5.00	CHLOROFORM								BROMOFORM
5.00	1,1,1-TRICHLOROETHANE								BROMOBENZENE
5.00	1,1-DICHLOROPROPENE								1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE								1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE								O-CHLOROTOLUENE
5.00	BENZENE								P-CHLOROTOLUENE
5.00	TRICHLOROETHENE (TRICHLOROETHYLENE)								1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE								1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE								1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE								

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



\*\*\*

PROJECT NO: 96 0002    SAMPLE NO: 90    SAMPLE TYPE: BLKWA    PROG ELEM: SSF    COLLECTED BY: F SLOAN    \*\*

SOURCE: NAS PENSACOLA    CITY: PENSACOLA    ST: FL    \*\*

STATION ID: QA 001 THW    COLLECTION START: 10/18/95 0830    STOP: 00/00/00    \*\*

\*\*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
5.00	CHLOROMETHANE	5.00	CIS 1,3-DICHLOROPROPENE
1.00	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS 1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
500	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
5.00	CIS 1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 122 SAMPLE TYPE: BLKWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: QA-001-DRB  
\*\*  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1500 STOP: 00/00/00

\*\*\* \*\* \*\* \*\* \* \* \* \* \* ANALYTICAL RESULTS  
UG/L MG/L

2.00	SILVER	2.8	CALCIUM
6.00	ARSENIC	1.2	MAGNESIUM
NA	BORON	0.60	IRON
21	BARIUM	10	SODIUM
1.00	BERYLLIUM	0.40U	POTASSIUM
1.00	CADMIUM		
2.00	COBALT		
3.9	CHROMIUM		
2.00	COPPER		
2.00	MOLYBDENUM		
4.00	NICKEL		
8.00	LEAD		
8.00	ANTIMONY		
8.00	SELENIUM		
5.00	TIN		
18	STRONTIUM		
100	TELLURIUM		
2.00	TITANIUM		
200	THALLIUM		
2.00	VANADIUM		
2.00	YTTRIUM		
200	ZINC		
NA	ZIRCONIUM		
0.2U	MERCURY		
62	ALUMINUM		
11	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS: JAGEMENT SYSTEM  
EPA REGION IV E ATHENS, GA.

PROJECT NO. 96 0002 SAMPLE NO. 122  
SOURCE: NAS PENSACOLA  
STATION ID: QA-001-DRB  
REMARKS: ORGANIC DATA REJECTED, SAMPLES RE ANALYZED BY WCTSSAS936D D3381-2

UG/L

ANALYTICAL RESULTS

ANALYTICAL RESULTS

24/95

5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
1.00	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
500	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	1.5J	DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
5.00	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
0.67J	CHLOROFORM	0.70J	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
0.96J	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96 0002 SAMPLE NO. 122 SAMPLE TYPE: RLKWA  
SOURCE: NAS PENSACOLA  
STATION ID: OA-001-DRB  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA  
COLLECTION START: 10/19/95 1500 STOP: 00/00/00

ANALYTICAL RESULTS  
UG/L

100	13- AND/OR 4- ) METHYLPHENOL	100	BENZO (GHI) PERYLENE
100	1,2,4-TRICHLOROBENZENE	100	BENZO-A PYRENE
100	1,2'-CHLOROISOPROPYLETHYER	100	BENZYL BUTYL PHTHALATE
100	2,3,4,6-TETRACHLOROPHENOL	100	BIS(2-CHLOROETHOXY) METHANE
100	2,4,5-TRICHLOROPHENOL	100	BIS(2-CHLOROETHYL) ETHER
100	2,4,6-TRICHLOROPHENOL	100	BIS(2-ETHYLHEXYL) PHTHALATE
100	2,4-DICHLOROPHENOL	100	CARBAZOLE
100	2,4-DIMETHYLPHENOL	100	CHRYSENE
200	2,4-DINITROPHENOL	100	DI-N-BUTYLPHTHALATE
100	2,4-DINITROTOLUENE	100	DI-N-OCTYLPHTHALATE
100	2,6-DINITROTOLUENE	100	DIBENZO(A,H)ANTHRACENE
100	2-CHLORONAPHTHALENE	100	DIBENZOFURAN
100	2-CHLOROPHENOL	100	DIETHYL PHTHALATE
200	2-METHYL-4,6-DINITROPHENOL	100	DIMETHYL PHTHALATE
100	2-METHYLNAPHTHALENE	100	FLUORANTHENE
100	2-METHYLPHENOL	100	FLUORENE
100	2-NITROANILINE	100	HEXACHLOROBENZENE (HCB)
100	2-NITROPHENOL	100	HEXACHLOROBUTADIENE
100	3,3'-DICHLOROBENZIDINE	100	HEXACHLOROCYCLOPENTADIENE (HCCP)
100	3-NITROANILINE	100	HEXACHLOROETHANE
100	4-BROMOPHENYL PHENYL ETHER	100	INDENO (1,2,3 CD) PYRENE
100	4-CHLORO-3-METHYLPHENOL	100	ISOPHORONE
100	4-CHLOROANILINE	100	N-NITROSODI-N PROPYLAMINE
100	4-CHLOROPHENYL PHENYL ETHER	100	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100	4-NITROANILINE	100	NAPHTHALENE
200	4-NITROPHENOL	100	NITROBENZENE
100	ACENAPHTHENE	200	PENTACHLOROPHENOL
100	ACENAPHTHYLENE	100	PHENANTHRENE
100	ANTHRACENE	100	PHENOL
100	BENZO(A)ANTHRACENE	100	PYRENE
100	BENZO(B AND/OR K)FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.







SAMPLE AND ANALYSIS REGION IV ES GEMENT SYSTEM  
RPA REGION IV ES THIENS, GA.

1 1/96

PESTICIDES/PCB DATA REPORT

PROJECT NO: 96 0002 SAMPLE NO: 122 SAMPLE TYPE: RUKWA  
SOURCE: NAS PENSACOLA  
STATION ID: QA-001 DRB  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1500 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

0.250	ALDRIN	1.20	PCB 1232 (AROCLO 1232)
0.250	HEPTACHLOR EPOXIDE	1.20	PCB 1248 (AROCLO 1248)
0.250	ALPHA-BHC	1.20	PCB 1260 (AROCLO 1260)
0.250	BETA-BHC	1.20	PCB 1016 (AROCLO 1016)
0.250	GAMMA-BHC (LINDANE)	100	TOXAPHENE
0.250	DELTA-BHC		CHLORDENE /2
0.250	ENDOSULFAN I (ALPHA)		ALPHA-CHLORDENE /2
0.250	DIELDRIN		BETA-CHLORDENE /2
0.250	4,4'-DDT (P,P'-DDT)		GAMMA-CHLORDENE /2
0.250	4,4'-DDE (P,P'-DDE)		GAMMA-CHLORDANE /2
0.250	4,4'-DDD (P,P'-DDD)		TRANS-NONACHLOR /2
0.250	ENDRIN		ALPHA-CHLORDANE /2
0.250	ENDOSULFAN II (BETA)		CIS-NONACHLOR /2
0.250	ENDOSULFAN SULFATE		OXYCHLORDANE (OCTACHLOROPOXIDE) /2
0.620	CHLORDANE (TECH. MIXTURE) /1	0.620	METHOXYCHLOR
1.20	PCB 1242 (AROCLO 1242)	0.250	ENDRIN KETONE
1.20	PCB 1254 (AROCLO 1254)		
1.20	PCB 1221 (AROCLO 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 208 SAMPLE TYPE: BLKWA  
\*\*\* \*\* \*\* \*\* SOURCE: NAS PENSACOLA  
\*\*\* \*\* \*\* \*\* STATION ID: QA-001-PRB  
\*\*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 1745 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

MG/L

2.0U SILVER  
6.0U ARSENIC  
NA BORON  
2.0U BARIUM  
1.0U BERYLLIUM  
1.0U CADMIUM  
2.0U COBALT  
2.0U CHROMIUM  
2.0U COPPER  
2.0U MOLYBDENUM  
4.0U NICKEL  
8.0U LEAD  
8.0U ANTIMONY  
8.0U SELENIUM  
5.0U TIN  
2.0U STRONTIUM  
10U TELLURIUM  
2.0U TITANIUM  
20U THALLIUM  
2.0U VANADIUM  
2.0U YTTRIUM  
2.0U ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
40U ALUMINUM  
2.0U MANGANESE

0.10U CALCIUM  
0.020U MAGNESIUM  
0.010U IRON  
0.40U SODIUM  
0.40U POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS METHOD  
EPA-REGION IV ESD  
ATLANTA, GA.

12. /95

# SPECIFIED ANALYSIS DATA REPORT

```

*** PROJECT NO. 96-0002 SAMPLE NO. 208 SAMPLE TYPE: BLKWA
** PROG ELEM: SSF COLLECTED BY: F SLOAN
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/25/95 1745 STOP: 00/00/00

```

RESULTS	UNITS	PARAMETER
4.00	UG/L	CYANIDE

\*\*FOOTNOTES\*\*  
 \*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 153 SAMPLE TYPE: BLKWA  
SOURCE: NAS PENSACOLA  
STATION ID: QA-001-WBS

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/21/95 1000 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L

2.0U SILVER  
6.0U ARSENIC  
NA BORON  
2.0U BARIUM  
1.0U BERYLLIUM  
1.0U CADMIUM  
2.0U COBALT  
2.0U CHROMIUM  
2.0U COPPER  
2.0U MOLYBDENUM  
4.0U NICKEL  
8.0U LEAD  
8.0U ANTIMONY  
8.0U SELENIUM  
5.0U TIN  
2.0U STRONTIUM  
10U TELLURIUM  
2.0U TITANIUM  
20U THALLIUM  
2.0U VANADIUM  
2.0U YTTRIUM  
2.0U ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
40U ALUMINUM  
2.0U MANGANESE

ANALYTICAL RESULTS

MG/L

0.10U CALCIUM  
0.020U MAGNESIUM  
0.010U IRON  
0.40U SODIUM  
0.40U POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS  
EPA-REGION IV ES

AGEMENT SYSTEM  
ATHENS, GA.

12, 18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: QA-001-WBS

153

SAMPLE TYPE: BLKWA

PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/21/95 1000 STOP: 00/00/00

COLLECTED BY: J VAIL  
ST: FL

RESULTS UNITS PARAMETER  
4.00 UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS  
EPA REGION IV ES

AGEMENT SYSTEM  
ATHENS, GA.

3/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 153  
SOURCE: NAS PENSACOLA  
STATION ID: QA-001-WBS  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 11/21/95 1000 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

0.250	ALDRIN	1.20	PCB-1232 (AROCLO 1232)
0.250	HEPTACHLOR	1.20	PCB-1248 (AROCLO 1248)
0.250	HEPTACHLOR EPOXIDE	1.20	PCB-1260 (AROCLO 1260)
0.250	ALPHA-BHC	1.20	PCB-1016 (AROCLO 1016)
0.250	BETA-BHC	100	TOXAPHENE
0.250	GAMMA-BHC (LINDANE)	-	CHLORDANE /2
0.250	DELTA-BHC	-	ALPHA-CHLORDANE /2
0.250	ENDOSULFAN I (ALPHA)	-	BETA-CHLORDANE /2
0.250	DIELDRIN	-	GAMMA-CHLORDANE /2
0.250	4,4'-DDT (P,P'-DDT)	-	GAMMA-CHLORDANE /2
0.250	4,4'-DDE (P,P'-DDE)	-	TRANS-NONACHLOR /2
0.250	4,4'-DDD (P,P'-DDD)	-	ALPHA-CHLORDANE /2
0.250	ENDRIN	-	CIS-NONACHLOR /2
0.250	ENDOSULFAN II (BETA)	-	OXYCHLORDANE (OCTACHLOROPOXIDE) /2
0.250	ENDOSULFAN SULFATE	-	METHOXYCHLOR
0.620	CHLORDANE (TECH. MIXTURE) /1	0.620	ENDRIN KETONE
1.20	PCB-1242 (AROCLO 1242)	0.250	
1.20	PCB-1254 (AROCLO 1254)		
1.20	PCB-1221 (AROCLO 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

105

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 153 SAMPLE TYPE: BLWA PROG ELEM: SSF COLLECTED BY: J VAIL  
 \*\* SOURCE: NAS PENSACOLA CITY, PENSACOLA ST: FL  
 \*\* STATION ID: QA-001-WBS COLLECTION START: 10/21/95 1000 STOP: 00/00/00  
 \*\*

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

UG/L

10U (3-AND/OR 4-) METHYLPHENOL	10U BENZO (GHI) PERYLENE
10U 1,2,4-TRICHLOROBENZENE	10U BENZO-A-PYRENE
10U 2,2'-CHLOROISOPROPYLETHYER	10U BENZYL BUTYL FHTHALATE
10U 2,3,4,6-TETRACHLOROPHENOL	10U BIS (2-CHLOROETHOXY) METHANE
10U 2,4,5-TRICHLOROPHENOL	10U BIS (2-CHLOROETHYL) ETHER
10U 2,4,6-TRICHLOROPHENOL	10U BIS (2-ETHYLHEXYL) PHTHALATE
10U 2,4-DICHLOROPHENOL	10U CARBAZOLE
10U 2,4-DIMETHYLPHENOL	10U CHRYSENE
20U 2,4-DINITROPHENOL	10U DI-N-BUTYLPHTFALATE
10U 2,4-DINITROTOLUENE	10U DI-N-OCTYLPHTFALATE
10U 2,6-DINITROTOLUENE	10U DIBENZO (A,H) ANTHRACENE
10U 2-CHLORONAPHTHALENE	10U DIBENZOFURAN
10U 2-CHLOROPHENOL	10U DIETHYL PHTHALATE
20U 2-METHYL-4,6-DINITROPHENOL	10U DIMETHYL PHTHALATE
10U 2-METHYLNAPHTHALENE	10U FLUORANTHENE
10U 2-METHYLPHENOL	10U FLUORENE
10U 2-NITROANILINE	10U HEXACHLOROBENZENE (HCB)
10U 2-NITROPHENOL	10U HEXACHLOROBUTADIENE
10U 3,3'-DICHLOROBENZIDINE	10U HEXACHLOROCYCLOPENTADIENE (HCCP)
10U 3-NITROANILINE	10U HEXACHLOROETHANE
10U 4-BROMOPHENYL PHENYL ETHER	10U INDENO (1,2,3-CD) PYRENE
10U 4-CHLORO-3-METHYLPHENOL	10U ISOPHORONE
10U 4-CHLOROANILINE	10U N-NITROSODI-N-PROPYLAMINE
10U 4-CHLOROPHENYL PHENYL ETHER	10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U 4-NITROANILINE	10U NAPHTHALENE
20U 4-NITROPHENOL	10U NITROBENZENE
10U ACENAPHTHENE	20U PENTACHLOROPHENOL
10U ACENAPHTHYLENE	10U PHENANTHRENE
10U ANTHRACENE	10U PHENOL
10U BENZO (A) ANTHRACENE	10U PYRENE
10U BENZO (B AND/OR K) FLUORANTHENE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF NEL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 153  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: QA-001-WBS  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
SAMPLE AND ANALYSIS EPA-REGION IV ES. GEMENT SYSTEM ATHENS, GA. 11/19/95  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/21/95 1000 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*^ANALYTICAL RESULTS

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
1.00	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
500	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
5.00	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3 TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 89 SAMPLE TYPE: SEDIMBLK PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: QA-001-TBS COLLECTION START: 10/18/95 0835 STOP: 00/00/00 \*\*  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
25U	CHLOROMETHANE	25U	CIS-1,3-DICHLOROPROPENE
25U	VINYL CHLORIDE	63U	METHYL ISOBUTYL KETONE
25U	BROMOMETHANE	25U	TOLUENE
25U	CHLOROETHANE	25U	TRANS-1,3-DICHLOROPROPENE
25U	TRICHLOROFLUOROMETHANE	25U	1,1,2-TRICHLOROETHANE
25U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	25U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
25U	ACETONE	25U	1,3-DICHLOROPROPANE
63U	CARBON DISULFIDE	63U	METHYL BUTYL KETONE
25U	METHYLENE CHLORIDE	25U	DIBROMOCHLOROMETHANE
25U	TRANS-1,2-DICHLOROETHENE	25U	CHLOROBENZENE
25U	1,1-DICHLOROETHANE	25U	1,1,1,2-TETRACHLOROETHANE
25U	CIS-1,2-DICHLOROETHENE	25U	ETHYL BENZENE
25U	2,2-DICHLOROPROPANE	25U	(M- AND/OR P-) XYLENE
250U	METHYL ETHYL KETONE	25U	O-XYLENE
25U	BROMOCHLOROMETHANE	25U	STYRENE
25U	CHLOROFORM	25U	BROMOFORM
25U	1,1,1-TRICHLOROETHANE	25U	BROMOBENZENE
25U	1,1-DICHLOROPROPENE	25U	1,1,2,2-TETRACHLOROETHANE
25U	CARBON TETRACHLORIDE	25U	1,2,3-TRICHLOROPROPANE
25U	1,2-DICHLOROETHANE	25U	O-CHLOROTOLUENE
25U	BENZENE	25U	P-CHLOROTOLUENE
25U	TRICHLOROETHENE(TRICHLOROETHYLENE)	25U	1,3-DICHLOROBENZENE
25U	1,2-DICHLOROPROPANE	25U	1,4-DICHLOROBENZENE
25U	DIBROMOMETHANE	25U	1,2-DICHLOROBENZENE
25U	BROMODICHLOROMETHANE	10.0	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 178  
SOURCE: NAS PENSACOLA  
STATION ID: QA-002-TBS  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1105 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
46U	CHLOROMETHANE	46U	CIS-1,3-DICHLOROPROPENE
46U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
46U	BROMOMETHANE	46U	TOLUENE
46U	CHLOROETHANE	46U	TRANS-1,3-DICHLOROPROPENE
46U	TRICHLOROFLUOROMETHANE	46U	1,1,2-TRICHLOROETHANE
46U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	46U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
46U	ACETONE	46U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
46U	METHYLENE CHLORIDE	46U	DIBROMOCHLOROMETHANE
46U	TRANS-1,2-DICHLOROETHENE	46U	CHLOROBENZENE
46U	1,1-DICHLOROETHANE	46U	1,1,1,2-TETRACHLOROETHANE
46U	CIS-1,2-DICHLOROETHENE	46U	ETHYL BENZENE
46U	2,2-DICHLOROPROPANE	46U	(M- AND/OR P-) XYLENE
46U	METHYL ETHYL KETONE	46U	O-XYLENE
46U	BROMOCHLOROMETHANE	46U	STYRENE
46U	CHLOROFORM	46U	BROMOFORM
46U	1,1,1-TRICHLOROETHANE	46U	BROMOBENZENE
46U	1,1-DICHLOROPROPENE	46U	1,1,2,2-TETRACHLOROETHANE
46U	CARBON TETRACHLORIDE	46U	1,2,3-TRICHLOROPROPANE
46U	1,2-DICHLOROETHANE	46U	O-CHLOROTOLUENE
46U	BENZENE	46U	P-CHLOROTOLUENE
46U	TRICHLOROETHENE (TRICHLOROETHYLENE)	46U	1,3-DICHLOROBENZENE
46U	1,2-DICHLOROPROPANE	46U	1,4-DICHLOROBENZENE
46U	DIBROMOMETHANE	46U	1,2-DICHLOROBENZENE
46U	BROMODICHLOROMETHANE	10.0	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

REPRINTED ON12/20/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 136 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: SF-T21-001 COLLECTION START: 10/19/95 1300 STOP: 00/00/00 \*\*  
\*\*

ANALYTICAL RESULTS

MG/KG

ANALYTICAL RESULTS

22 SILVER 3300 CALCIUM  
30U ARSENIC 1800 MAGNESIUM  
NA BORON 20000 IRON  
32 BARIUM 1200 SODIUM  
4.3U BERYLLIUM 2100 POTASSIUM  
260 CADMIUM 5 PERCENT MOISTURE  
12U COBALT  
40 CHROMIUM  
2600 COPPER  
15U MOLYBDENUM  
26 NICKEL  
11000 LEAD  
620 ANTIMONY  
34U SELENIUM  
210 TIN  
12U STRONTIUM  
44U TELLURIUM  
110 TITANIUM  
85U THALLIUM  
21 VANADIUM  
8.0 YTTRIUM  
13000 ZINC  
NA ZIRCONIUM  
0.06 MERCURY  
12000 ALUMINUM  
280 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-ESD, REG IV  
ATHENS GEORGIA

12/20/95

TCLP  
DATA REPORTING SHEET  
SEDIMENT/SOIL/SLUDGE

SAMPLE NO.: 96C 136 SAMPLE TYPE: SOIL

PROJECT NO.: 96-0002 PROGRAM ELEMENT: SSF  
SOURCE: NAS PENSACOLA  
CITY: PENSACOLA STATE: FL

STATION I.D.: SF-T21-001  
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 10/19/95 1300  
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: F SLOAN RECEIVED FROM: FEDERAL EXPRESS  
SAMPLE REC'D: DATE/TIME 10/20/95 1000 REC'D BY: D COLQUITT  
SEALED: YES  
CHEMIST: MAW

REMARK:  
REMARK:

SAMPLE LOG VERIFIED BY: VAX SAMPLE DATA VERIFIED BY: MAW

\*\*\*REMARKS\*\*\*

\*\*\*\*\*

\*\*\*FOOTNOTES\*\*\*

- \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES
- \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
- \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*\*\*\*\*ANALYTICAL RESULTS\*\*\*\*\*

RESULTS	UNITS	PARAMETER
0.79U	MG/L	SILVER
2.4U	MG/L	ARSENIC
2.0U	MG/L	BARIUM
40A	MG/L	CADMIUM
0.79U	MG/L	CHROMIUM
2200A	MG/L	LEAD
3.2U	MG/L	SELENIUM
NA	MG/L	MERCURY
1.6U	MG/L	NICKEL
15A	MG/L	ANTIMONY
0.39U	MG/L	BERYLLIUM
7.9U	MG/L	THALLIUM

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO: 96-0002 SAMPLE NO. 136 SAMPLE TYPE: SOIL, PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SF-T21-001 COLLECTION START: 10/19/95 1300 STOP: 00/00/00  
\*\*  
\*\*\*

RESULTS UNITS PARAMETER  
0.28 MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PESTICIDES/POISON'S DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 136  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T21-001  
\*\*\*  
SAMPLE AND ANALYSIS: EPA-REGION IV  
VAGEMENT SYSTEM: ATHENS, GA.  
20/95  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1300 STOP: 00/00/00  
\*\*\*

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

50U ALDRIN	500U PCB-1232 (AROCCLOR 1232)
50U HEPTACHLOR	500U PCB-1248 (AROCCLOR 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROCCLOR 1260)
50U ALPHA-BHC	500U PCB-1016 (AROCCLOR 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
50U DELTA-BHC	-- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	-- BETA-CHLORDENE /2
50U DIELDRIN	-- GAMMA-CHLORDENE /2
50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
50U 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
50U ENDRIN	-- CIS-NONACHLOR /2
50U ENDOSULFAN II (BETA)	-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
50U ENDOSULFAN SULFATE	200U METHOXYCHLOR
200U CHLORDANE (TECH. MIXTURE) /1	50U ENDRIN KETONE
500U PCB-1242 (AROCCLOR 1242)	5.1 PERCENT MOISTURE
500U PCB-1254 (AROCCLOR 1254)	
500U PCB-1221 (AROCCLOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.





PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 136 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T21-001  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
SAMPLE AND ANALYSIS EPA-REGION IV ES GEMENT SYSTEM  
JTHENS, GA.  
1 6/95  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1300 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*  
ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
48U	CHLOROMETHANE	48U	CIS-1,3-DICHLOROPROPENE
48U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
48U	BROMOMETHANE	48U	TOLUENE
48U	CHLOROETHANE	48U	TRANS-1,3-DICHLOROPROPENE
48U	TRICHLOROFLUOROMETHANE	48U	1,1,2-TRICHLOROETHANE
48U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	48U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
48U	ACETONE	48U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
48U	METHYLENE CHLORIDE	48U	DIBROMOCHLOROMETHANE
48U	TRANS-1,2-DICHLOROETHENE	48U	CHLOROBENZENE
48U	1,1-DICHLOROETHANE	48U	1,1,1,2-TETRACHLOROETHANE
48U	CIS-1,2-DICHLOROETHENE	48U	ETHYL BENZENE
48U	2,2-DICHLOROPROPANE	48U	(M- AND/OR P-) XYLENE
48U	METHYL ETHYL KETONE	48U	O-XYLENE
48U	BROMOCHLOROMETHANE	48U	STYRENE
48U	CHLOROFORM	48U	BROMOFORM
48U	1,1,1-TRICHLOROETHANE	48U	BROMOBENZENE
48U	1,1-DICHLOROPROPENE	48U	1,1,2,2-TETRACHLOROETHANE
48U	CARBON TETRACHLORIDE	48U	1,2,3-TRICHLOROPROPANE
48U	1,2-DICHLOROETHANE	48U	O-CHLOROTOLUENE
48U	BENZENE	48U	P-CHLOROTOLUENE
48U	TRICHLOROETHENE (TRICHLOROETHYLENE)	48U	1,3-DICHLOROBENZENE
48U	1,2-DICHLOROPROPANE	48U	1,4-DICHLOROBENZENE
48U	DIBROMOMETHANE	48U	1,2-DICHLOROBENZENE
48U	BROMODICHLOROMETHANE	5.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 106 SAMPLE TYPE: SOIL  
\*\* \*\* \*\* \*\* SOURCE: NAS PENSACOLA  
\*\* \*\* \*\* \*\* STATION ID: SF-106-001  
\*\* \*\* \*\* \*\* COLLECTION START: 10/18/95 1125 STOP: 00/00/00  
\*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

ANALYTICAL RESULTS

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG		MG/KG	
1.00	SILVER	500	CALCIUM
3.00	ARSENIC	16	MAGNESIUM
NA	BORON	92	IRON
2.7	BARIUM	120	SODIUM
0.500	BERYLLIUM	2000	POTASSIUM
2.4	CADMIUM	6	PERCENT MOISTURE
1.00	COBALT		
93	CHROMIUM		
5.4	COPPER		
1.00	MOLYBDENUM		
2.00	NICKEL		
36	LEAD		
3.00	ANTIMONY		
4.00	SELENIUM		
3.50	TIN		
1.00	STRONTIUM		
5.00	TELLURIUM		
18	TITANIUM		
100	THALLIUM		
1.00	VANADIUM		
1.00	YTTRIUM		
38	ZINC		
NA	ZIRCONIUM		
0.050	MERCURY		
46	ALUMINUM		
1.00	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS  
EPA REGION IV ES  
ATHENS, GA.  
8/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: SF-I06-001

106 SAMPLE TYPE: SOIL

PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/18/95 1125 STOP: 00/00/00

COLLECTED BY: F SLOAN  
ST: FL

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 106 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\*\* STATION ID: SF-106-001 COLLECTION START: 10/18/95 1125 STOP: 00/00/00 \*\*\*

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

50U ALDRIN	500U PCB-1232 (AROCOR 1232)
50U HEPTACHLOR	500U PCB-1248 (AROCOR 1248)
50U HEPTACHLOR EPOXIDE	90J PCB-1260 (AROCOR 1260)
50U ALPHA-BHC	500U PCB-1016 (AROCOR 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	- CHLORDENE /2
50U DELTA-BHC	- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	- BETA CHLORDENE /2
50U DIELDRIN	- GAMMA-CHLORDENE /2
50U 4,4'-DDT (P,P'-DDT)	- GAMMA-CHLORDANE /2
50U 4,4'-DDE (P,P'-DDE)	- TRANS-NONACHLOR /2
50U 4,4'-DDD (P,P'-DDD)	- ALPHA-CHLORDANE /2
50U ENDRIN	- CIS-NONACHLOR /2
50U ENDOSULFAN II (BETA)	- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
50U ENDOSULFAN SULFATE	200U METHOXYCHLOR
200U CHLORDANE (TECH. MIXTURE) /1	50U ENDRIN KETONE
500U PCB-1242 (AROCOR 1242)	5.3 PERCENT MOISTURE
500U PCB-1254 (AROCOR 1254)	
500U PCB-1221 (AROCOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN C-CONFIRMED BY GC/MS  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS EPA-REGION IV E. ATHENS, GA. 27/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 106 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-106-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1125 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

32000 (3-AND/OR 4-) METHYLPHENOL  
32000 1,2,4-TRICHLOROBENZENE  
32000 2,2'-CHLOROISOPROPYLETHER  
32000 2,3,4,6-TETRACHLOROPHENOL  
32000 2,4,5-TRICHLOROPHENOL  
32000 2,4,6-TRICHLOROPHENOL  
32000 2,4-DICHLOROPHENOL  
32000 2,4-DIMETHYLPHENOL  
64000 2,4-DINITROPHENOL  
32000 2,4-DINITROTOLUENE  
32000 2,6-DINITROTOLUENE  
32000 2-CHLORONAPHTHALENE  
32000 2-CHLOROPHENOL  
64000 2-METHYL-4,6-DINITROPHENOL  
32000 2-METHYLNAPHTHALENE  
32000 2-METHYLPHENOL  
32000 2-NITROANILINE  
32000 2-NITROPHENOL  
32000 3,3'-DICHLOROBENZIDINE  
32000 3-NITROANILINE  
32000 4-BROMOPHENYL PHENYL ETHER  
32000 4-CHLORO-3-METHYLPHENOL  
32000 4-CHLOROANILINE  
32000 4-CHLOROPHENYL PHENYL ETHER  
32000 4-NITROANILINE  
64000 4-NITROPHENOL  
32000 ACENAPHTHENE  
32000 ACENAPHTHYLENE  
32000 ANTHRACENE  
32000 BENZO (A) ANTHRACENE  
32000 BENZO (B AND/OR K) FLUORANTHENE

BENZO (GHI) PERYLENE  
32000 BENZO-A-PYRENE  
32000 BENZYL BUTYL PHTHALATE  
32000 BIS (2-CHLOROETHOXY) METHANE  
32000 BIS (2-CHLOROETHYL) ETHER  
32000 BIS (2-ETHYLHEXYL) PHTHALATE  
32000 CARBAZOLE  
32000 CHRYSENE  
32000 DI-N-BUTYL PHTHALATE  
32000 DI-N-OCTYL PHTHALATE  
32000 DIBENZO (A,H) ANTHRACENE  
32000 DIBENZOFURAN  
32000 DIETHYL PHTHALATE  
32000 DIMETHYL PHTHALATE  
32000 FLUORANTHENE  
32000 FLUORENE  
32000 HEXACHLOROBENZENE (HCB)  
32000 HEXACHLOROBUTADIENE  
32000 HEXACHLOROCYCLOPENTADIENE (HCCP)  
32000 HEXACHLOROETHANE  
32000 INDENO (1,2,3-CD) PYRENE  
32000 ISOPHORONE  
32000 N-NITROSODI-N-PROPYLAMINE  
32000 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
32000 NAPHTHALENE  
32000 NITROBENZENE  
64000 PENTACHLOROPHENOL  
32000 PHENANTHRENE  
32000 PHENOL  
32000 PYRENE  
5.3 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 106 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-106-001  
\*\*  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/18/95 1125 STOP: 00/00/00  
\*\*\*

UG/KG ANALYTICAL RESULTS

44U CHLOROMETHANE  
44U VINYL CHLORIDE  
44U BROMOMETHANE  
44U CHLOROETHANE  
44U TRICHLOROFLUOROMETHANE  
44U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
44U ACETONE  
110U CARBON DISULFIDE  
44U METHYLENE CHLORIDE  
44U TRANS-1,2-DICHLOROETHENE  
44U 1,1-DICHLOROETHANE  
44U CIS-1,2-DICHLOROETHENE  
44U 2,2-DICHLOROPROPANE  
44U METHYL ETHYL KETONE  
44U BROMOCHLOROMETHANE  
44U CHLOROFORM  
44U 1,1,1-TRICHLOROETHANE  
44U 1,1-DICHLOROPROPENE  
44U CARBON TETRACHLORIDE  
44U 1,2-DICHLOROETHANE  
44U BENZENE  
44U TRICHLOROETHENE (TRICHLOROETHYLENE)  
44U 1,2-DICHLOROPROPANE  
44U DIBROMOMETHANE  
44U BROMODICHLOROMETHANE

UG/KG

CIS-1,3-DICHLOROPROPENE  
METHYL ISOBUTYL KETONE  
TOLUENE  
TRANS-1,3-DICHLOROPROPENE  
1,1,2-TRICHLOROETHANE  
TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
1,3-DICHLOROPROPANE  
METHYL BUTYL KETONE  
DIBROMOCHLOROMETHANE  
CHLOROBENZENE  
1,1,1,2-TETRACHLOROETHANE  
ETHYL BENZENE  
(M- AND/OR P-) XYLENE  
O-XYLENE  
STYRENE  
BROMOFORM  
BROMOBENZENE  
1,1,2,2-TETRACHLOROETHANE  
1,2,3-TRICHLOROPROPANE  
O-CHLOROTOLUENE  
P-CHLOROTOLUENE  
1,3-DICHLOROBENZENE  
1,4-DICHLOROBENZENE  
1,2-DICHLOROBENZENE  
PERCENT MOISTURE  
5.2

ANALYTICAL RESULTS

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS  
EPA-REGION IV E. AGEMENT SYSTEM  
ATHENS, GA.

5/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 130 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF S23-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0922 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.00 SILVER 330 CALCIUM  
3.00 ARSENIC 68 MAGNESIUM  
NA BORON 770 IRON  
5.6 BARIUM 1000 SODIUM  
0.500 BERYLLIUM 2000 POTASSIUM  
1.2 CADMIUM 4 PERCENT MOISTURE  
1.00 COBALT  
3.0 CHROMIUM  
4.1 COPPER  
1.00 MOLYBDENUM  
2.00 NICKEL  
35 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
3.50 TIN  
1.2 STRONTIUM  
5.00 TELLURIUM  
21 TITANIUM  
100 THALLIUM  
1.8 VANADIUM  
1.00 YTTRIUM  
37 ZINC  
NA ZIRCONIUM  
0.050 MERCURY  
930 ALUMINUM  
4.3 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 130 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-S23-001  
\*\*  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0922 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 130 SAMPLE TYPE: SOIL  
\*\* \*\* \*\* \*\* SOURCE: NAS PENSACOLA  
\*\* \*\* \*\* \*\* STATION ID: SF-S23-001  
\*\*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0922 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

3400U (3-AND/OR 4-) METHYLPHENOL  
3400U 1,2,4-TRICHLOROBENZENE  
3400U 2,2'-CHLOROISOPROPYLETHER  
3400U 2,3,4,6-TETRACHLOROPHENOL  
3400U 2,4,5-TRICHLOROPHENOL  
3400U 2,4,6-TRICHLOROPHENOL  
3400U 2,4-DICHLOROPHENOL  
3400U 2,4-DIMETHYLPHENOL  
6800U 2,4-DINITROPHENOL  
3400U 2,4-DINITROTOLUENE  
3400U 2,6-DINITROTOLUENE  
3400U 2-CHLORONAPHTHALENE  
3400U 2-CHLOROPHENOL  
6800U 2-METHYL-4,6-DINITROPHENOL  
3400U 2-METHYLNAPHTHALENE  
3400U 2-METHYLPHENOL  
3400U 2-NITROANILINE  
3400U 2-NITROPHENOL  
3400U 3,3'-DICHLOROBENZIDINE  
3400U 3-NITROANILINE  
3400U 4-BROMOPHENYL PHENYL ETHER  
3400U 4-CHLORO-3-METHYLPHENOL  
3400U 4-CHLOROANILINE  
3400U 4-CHLOROPHENYL PHENYL ETHER  
3400U 4-NITROANILINE  
6800U 4-NITROPHENOL  
3400U ACENAPHTHENE  
3400U ACENAPHTHYLENE  
3400U ANTHRACENE  
3400U BENZO (A) ANTHRACENE  
3400U BENZO (B AND/OR K) FLUORANTHENE

3400U BENZO (GHI) PERYLENE  
3400U BENZO-A-PYRENE  
3400U BENZYL BUTYL PHTHALATE  
3400U BIS (2-CHLOROETHOXY) METHANE  
3400U BIS (2-CHLOROETHYL) ETHER  
3400U BIS (2-ETHYLHEXYL) PHTHALATE  
3400U CARBAZOLE  
3400U CHRYSENE  
3400U DI-N-BUTYLPHTHALATE  
3400U DI-N-OCTYLPHTHALATE  
3400U DIBENZO (A,H) ANTHRACENE  
3400U DIBENZOFURAN  
3400U DIETHYL PHTHALATE  
3400U DIMETHYL PHTHALATE  
3400U FLUORANTHENE  
3400U FLUORENE  
3400U HEXACHLOROBENZENE (HCB)  
3400U HEXACHLOROBUTADIENE  
3400U HEXACHLOROCYCLOPENTADIENE (HCCP)  
3400U HEXACHLOROETHANE  
3400U INDENO (1,2,3-CD) PYRENE  
3400U ISOPHORONE  
3400U N-NITROSODI-N-PROPYLAMINE  
3400U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
3400U NAPHTHALENE  
3400U NITROBENZENE  
6800U PENTACHLOROPHENOL  
3400U PHENANTHRENE  
3400U PHENOL  
3400U PYRENE  
4.2 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS : GEMENT SYSTEM  
EPA-REGION IV ESJ .THENS, GA. 1 //95

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 130 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-S23-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0922 STOP: 00/00/00

ANALYTICAL RESULTS UG/KG

N PETROLEUM PRODUCT

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 130 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-S23-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0922 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

CHLOROMETHANE  
VINYL CHLORIDE  
BROMOMETHANE  
CHLOROETHANE  
TRICHLOROFLUOROMETHANE  
1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
ACETONE  
CARBON DISULFIDE  
METHYLENE CHLORIDE  
TRANS-1,2-DICHLOROETHENE  
1,1-DICHLOROETHANE  
CIS-1,2-DICHLOROETHENE  
2,2-DICHLOROPROPANE  
METHYL ETHYL KETONE  
BROMOCHLOROMETHANE  
CHLOROFORM  
1,1,1-TRICHLOROETHANE  
1,1-DICHLOROPROPENE  
CARBON TETRACHLORIDE  
1,2-DICHLOROETHANE  
BENZENE  
TRICHLOROETHENE (TRICHLOROETHYLENE)  
1,2-DICHLOROPROPANE  
DIBROMOMETHANE  
BROMODICHLOROMETHANE

CIS-1,3-DICHLOROPROPENE  
METHYL ISOBUTYL KETONE  
TOLUENE  
TRANS-1,3-DICHLOROPROPENE  
1,1,2-TRICHLOROETHANE  
TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
1,3-DICHLOROPROPANE  
METHYL BUTYL KETONE  
DIBROMOCHLOROMETHANE  
CHLOROBENZENE  
1,1,1,2-TETRACHLOROETHANE  
ETHYL BENZENE  
(M- AND/OR P-) XYLENE  
O-XYLENE  
STYRENE  
BROMOFORM  
BROMOBENZENE  
1,1,2,2-TETRACHLOROETHANE  
1,2,3-TRICHLOROPROPANE  
O-CHLOROTOLUENE  
P-CHLOROTOLUENE  
1,3-DICHLOROBENZENE  
1,4-DICHLOROBENZENE  
1,2-DICHLOROBENZENE  
PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

METALS DATA REPORT

SAMPLE AND ANALYSIS  
EPA REGION IV

NAGEMENT SYSTEM  
ATHENS, GA.

15/95

PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: SB-106-001

91  
SAMPLE TYPE: SOIL

PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/18/95 1135  
STOP: 00/00/00

COLLECTED BY: F SLOAN  
ST: FL

ANALYTICAL RESULTS

MG/KG

50U CALCIUM  
10U MAGNESIUM  
35 IRON  
100U SODIUM  
200U POTASSIUM  
20 PERCENT MOISIURE

ANALYTICAL RESULTS

MG/KG

1.0U SILVER  
3.0U ARSENIC  
NA BORON  
1.0U BARIUM  
0.50U BERYLLIUM  
2.2 CADMIUM  
1.0U COBALT  
20 CHROMIUM  
2.8 COPPER  
1.0U MOLYBDENUM  
2.0U NICKEL  
12 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
4.0U TIN  
1.0U STRONTIUM  
5.0U TELLURIUM  
2.6 TITANIUM  
10U THALLIUM  
1.0U VANADIUM  
1.0U YTTRIUM  
17 ZINC  
NA ZIRCONIUM  
0.04U MERCURY  
33 ALUMINUM  
1.0U MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*N-KNOWN TO BE LESS THAN VALUE GIVEN



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

**SPECIFIED ANALYSIS DATA REPORT**

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SPECIFIED ANALYSIS DATA REPORT
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** 
** PROJECT NO. 96-0002 SAMPLE NO. 91 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SB-106-001
**
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** 
**          PROG ELEM: SSF          COLLECTED BY: F SLOAN
**          CITY: PENSACOLA          ST: FL
**          COLLECTION START: 10/18/95 1135 STOP: 00/00/00
**
** ** ** ** ** ** ** ** ** ** ** ** ** ** 

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RESULTS	UNITS	PARAMETER
0.25U	MG/KG	CYANIDE

\*\*\* FOOTNOTES \*\*\*

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PESTICIDES/PCB'S DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 91 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-I06-001  
\*\*  
\*\*\*  
SAMPLE AND ANALYSIS EPA-REGION IV EST  
AGEMENT SYSTEM  
ATHENS, GA.  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1135 STOP: 00/00/00  
UG/KG  
ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS  
500U ALDRIN  
50U HEPTACHLOR  
50U HEPTACHLOR EPOXIDE  
50U ALPHA-BHC  
50U BETA-BHC  
50U GAMMA-BHC (LINDANE)  
50U DELTA-BHC  
50U ENDOSULFAN I (ALPHA)  
50U DIELDRIN  
50U 4,4'-DDT (P,P'-DDT)  
50U 4,4'-DDE (P,P'-DDE)  
50U 4,4'-DDD (P,P'-DDD)  
50U ENDRIN  
50U ENDOSULFAN II (BETA)  
50U ENDOSULFAN SULFATE  
200U CHLORDANE (TECH. MIXTURE) /1  
500U PCB-1242 (AROCOR 1242)  
500U PCB-1254 (AROCOR 1254)  
500U PCB-1221 (AROCOR 1221)  
500U PCB-1232 (AROCOR 1232)  
500U PCB-1248 (AROCOR 1248)  
500U PCB-1260 (AROCOR 1260)  
500U PCB-1016 (AROCOR 1016)  
3000U TOXAPHENE  
- CHLORDENE /2  
- ALPHA-CHLORDENE /2  
- BETA-CHLORDENE /2  
- GAMMA-CHLORDENE /2  
- GAMMA-CHLORDANE /2  
- TRANS-NONACHLOR /2  
- ALPHA-CHLORDANE /2  
- CIS-NONACHLOR /2  
- OXYCHLORDANE (OCTACHLOREPOXIDE) /2  
200U METHOXYCHLOR  
50U ENDRIN KETONE  
20 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 91 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\*\* STATION ID: SB-106-001 COLLECTION START: 10/18/95 1135 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS

3900U	(3-AND/OR 4-) METHYLPHENOL	3900U	BENZO (GHI) PERYLENE
3900U	1,2,4-TRICHLOROBENZENE	3900U	BENZO-A-PYRENE
3900U	2,2'-CHLOROISOPROPYLETHYER	3900U	BENZYL BUTYL PHTHALATE
3900U	2,3,4,6-TETRACHLOROPHENOL	3900U	BIS (2-CHLOROETHOXY) METHANE
3900U	2,4,5-TRICHLOROPHENOL	3900U	BIS (2-CHLOROETHYL) ETHER
3900U	2,4,6-TRICHLOROPHENOL	3900U	BIS (2-ETHYLHEXYL) PHTHALATE
3900U	2,4-DICHLOROPHENOL	3900U	CARBAZOLE
3900U	2,4-DIMETHYLPHENOL	3900U	CHRYSENE
7800U	2,4-DINITROPHENOL	3900U	DI-N-BUTYLPHTHALATE
3900U	2,4-DINITROTOLUENE	3900U	DI-N-OCTYLPHTHALATE
3900U	2,6-DINITROTOLUENE	3900U	DIBENZO (A,H) ANTHRACENE
3900U	2-CHLORONAPHTHALENE	3900U	DIBENZOFURAN
3900U	2-CHLOROPHENOL	3900U	DIETHYL PHTHALATE
7800U	2-METHYL-4,6-DINITROPHENOL	3900U	DIMETHYL PHTHALATE
3900U	2-METHYLNAPHTHALENE	3900U	FLUORANTHENE
3900U	2-METHYLPHENOL	3900U	FLUORENE
3900U	2-NITROANILINE	3900U	HEXACHLOROBENZENE (HCB)
3900U	2-NITROPHENOL	3900U	HEXACHLOROBUTADIENE
3900U	3,3'-DICHLOROBENZIDINE	3900U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3900U	3-NITROANILINE	3900U	HEXACHLOROETHANE
3900U	4-BROMOPHENYL PHENYL ETHER	3900U	INDENO (1,2,3-CD) PYRENE
3900U	4-CHLORO-3-METHYLPHENOL	3900U	ISOPHORONE
3900U	4-CHLOROANILINE	3900U	N-NITROSODI-N-1-ROPYLAMINE
3900U	4-CHLOROPHENYL PHENYL ETHER	3900U	N-NITRODIPHENYLAMINE/DIPHENYLAMINE
3900U	4-NITROANILINE	3900U	NAPHTHALENE
7800U	4-NITROPHENOL	3900U	NITROBENZENE
3900U	ACENAPHTHENE	7800U	PENTACHLOROPHENOL
3900U	ACENAPHTHYLENE	3900U	PHENANTHRENE
3900U	ANTHRACENE	3900U	PHENOL
3900U	BENZO (A) ANTHRACENE	3900U	PYRENE
3900U	BENZO (B AND/OR K) FLUORANTHENE	19.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS EPA-REGION IV ES GEMENT SYSTEM ATHENS, GA. 1 1/95

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 91 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-106-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1135 STOP: 00/00/00

ANALYTICAL RESULTS UG/KG

N PETROLEUM PRODUCT

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



SAMPLE AND ANALYSIS ' \GEMENT SYSTEM  
EPA-REGION IV ES .THENS, GA.

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

\*\* PROJECT NO. 96-0002 SAMPLE NO. 91 SAMPLE TYPE: SOIL  
 PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*

\*\* SOURCE: NAS PENSACOLA \*\*  
 \*\* CREDITED NO.: 20682 \*\*  
 \*\* DATED: 1971-01-01 \*\*  
 \*\* CREDITED TO: 001 \*\*  
 \*\* CITY: PENSACOLA \*\*  
 \*\* STATE: FL \*\*

STATION ID: SB-106-001  
COLLECTION START: 10/18/95 1135 STOP: 00/00/00

ANALYTICAL RESULTS UG/KG

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
 \*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 123 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-S23-001  
\*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\*

ANALYTICAL RESULTS

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
1.0U SILVER		350 CALCIUM	
3.0U ARSENIC		140 MAGNESIUM	
NA BORON		780 IRON	
5.0 BARIUM		100U SODIUM	
0.50U BERYLLIUM		200U POTASSIUM	
0.50U CADMIUM		13 PERCENT MOISTURE	
1.0U COBALT			
1.7 CHROMIUM			
17 COPPER			
1.0U MOLYBDENUM			
2.0U NICKEL			
58 LEAD			
3.0U ANTIMONY			
4.0U SELENIUM			
13U TIN			
1.2 STRONTIUM			
5.0U TELLURIUM			
9.5 TITANIUM			
10U THALLIUM			
1.6 VANADIUM			
1.0U YTTRIUM			
28 ZINC			
NA ZIRCONIUM			
0.09 MERCURY			
360 ALUMINUM			
4.7 MANGANESE			

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS: IAGEMENT SYSTEM  
EPA-REGION IV E. ATHENS, GA. ,18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO: 96-0002 SAMPLE NO. 123  
SOURCE: NAS PENSACOLA  
STATION ID: SB-S23-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0935 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.23U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 123 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SR S23-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0935 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS

31000	(3-AND/OR 4-) METHYLPHENOL	31000	BENZO (GHI) PERYLENE
31000	1,2,4 TRICHLOROBENZENE	31000	BENZO-A-PYRENE
31000	2,2'-CHLOROISOPROPYLETHER	31000	BENZYL BUTYL PHTHALATE
31000	2,3,4,6-TETRACHLOROPHENOL	31000	BIS(2-CHLOROETHOXY) METHANE
31000	2,4,5-TRICHLOROPHENOL	31000	BIS(2-CHLOROETHYL) ETHER
31000	2,4,6-TRICHLOROPHENOL	31000	BIS(2-ETHYLHEXYL) PHTHALATE
31000	2,4 DICHLOROPHENOL	31000	CARBAZOLE
31000	2,4 DIMETHYLPHENOL	31000	CHRYSENE
62000	2,4 DINITROPHENOL	31000	DI-N-BUTYLPHTHALATE
31000	2,4 DINITROTOLUENE	31000	DI-N-OCTYLPHTHALATE
31000	2,6-DINITROTOLUENE	31000	DIBENZO(A,H)ANTHRACENE
31000	2-CHLORONAPHTHALENE	31000	DIBENZOFURAN
31000	2-CHLOROPHENOL	31000	DIETHYL PHTHALATE
62000	2-METHYL, 4,6-DINITROPHENOL	31000	DIMETHYL PHTHALATE
31000	2-METHYLNAPHTHALENE	31000	FLUORANTHENE
31000	2-METHYLPHENOL	31000	FLUORENE
31000	2-NITROANILINE	31000	HEXACHLOROBENZENE (HCB)
31000	2-NITROPHENOL	31000	HEXACHLOROBUTADIENE
31000	3,3'-DICHLOROBENZIDINE	31000	HEXACHLOROCYCLOPENTADIENE (HCCP)
31000	3-NITROANILINE	31000	HEXACHLOROETHANE
31000	4-BROMOPHENYL PHENYL ETHER	31000	INDENO (1,2,3-CD) PYRENE
31000	4-CHLORO-3 METHYLPHENOL	31000	ISOPHORONE
31000	4 CHLOROANILINE	31000	N-NITROSODI-N-PROPYLAMINE
31000	4-CHLOROPHENYL PHENYL ETHER	31000	N NITROSODIPHENYLAMINE/DIPHENYLAMINE
31000	4 NITROANILINE	31000	NAPHTHALENE
62000	4 NITROPHENOL	31000	NITROBENZENE
31000	ACENAPHTHENE	62000	PENTACHLOROPHENOL
31000	ACENAPHTHYLENE	31000	PHENANTHRENE
31000	ANTHRACENE	31000	PHENOL
31000	BENZO(A)ANTHRACENE	31000	PYRENE
31000	BENZO(B AND/OR K)FLUORANTHENE	10.4	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS EPA-REGION IV I VAGEMENT SYSTEM ATHENS, GA. 16/95

PURGEABLE ORGANICS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 123 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-S23-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0935 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
93U	CHLOROMETHANE	93U	CIS-1,3-DICHLOROPROPENE
93U	VINYL CHLORIDE	230U	METHYL ISOBUTYL KETONE
93U	BROMOMETHANE	93U	TOLUENE
93U	CHLOROETHANE	93U	TRANS-1,3-DICHLOROPROPENE
93U	TRICHLOROFLUOROMETHANE	93U	1,1,2-TRICHLOROETHANE
93U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	93U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
930U	ACETONE	93U	1,3-DICHLOROPROPANE
230U	CARBON DISULFIDE	230U	METHYL BUTYL KETONE
93U	METHYLENE CHLORIDE	93U	DIBROMOCHLOROMETHANE
93U	TRANS-1,2-DICHLOROETHENE	93U	CHLOROBENZENE
93U	1,1-DICHLOROETHANE	93U	1,1,1,2-TETRACHLOROETHANE
93U	CIS-1,2-DICHLOROETHENE	93U	ETHYL BENZENE
93U	2,2-DICHLOROPROPANE	93U	(M- AND/OR P-) XYLENE
930U	METHYL ETHYL KETONE	93U	O-XYLENE
93U	BROMOCHLOROMETHANE	93U	STYRENE
93U	CHLOROFORM	93U	BROMOFORM
93U	1,1,1-TRICHLOROETHANE	93U	BROMOBENZENE
93U	1,1-DICHLOROPROPENE	93U	1,1,2,2-TETRACHLOROETHANE
93U	CARBON TETRACHLORIDE	93U	1,2,3-TRICHLOROPROPANE
93U	1,2-DICHLOROETHANE	93U	O-CHLOROTOLUENE
93U	BENZENE	93U	P-CHLOROTOLUENE
93U	TRICHLOROETHENE (TRICHLOROETHYLENE)	93U	1,3-DICHLOROBENZENE
93U	1,2-DICHLOROPROPANE	93U	1,4-DICHLOROBENZENE
93U	DIBROMOMETHANE	93U	1,2-DICHLOROBENZENE
93U	BROMODICHLOROMETHANE	10.4	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 181 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T38-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/24/95 0845 STOP: 00/00/00

ANALYTICAL RESULTS

MG/KG

1.0U SILVER  
3.0U ARSENIC  
NA BORON  
15 BARIUM  
0.50U BERYLLIUM  
4.6 CADMIUM  
1.0 COBALT  
48 CHROMIUM  
28 COPPER  
1.0U MOLYBDENUM  
4.9 NICKEL  
110 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
6.0U TIN  
4.0 STRONTIUM  
5.0U TELLURIUM  
55 TITANIUM  
10U THALLIUM  
9.3 VANADIUM  
1.3 YTTRIUM  
99 ZINC  
NA ZIRCONIUM  
0.07 MERCURY  
5900 ALUMINUM  
87 MANGANESE

ANALYTICAL RESULTS

620 CALCIUM  
170 MAGNESIUM  
4600 IRON  
160 SODIUM  
200U POTASSIUM  
5 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SPECIFIED ANALYSIS DATA REPORT  
\*\*\* PROJECT NO. 96-0002      SAMPLE NO. 181      SAMPLE TYPE: SOIL      PROG ELEM: SSF      COLLECTED BY: D HUNTER      \*\*\*  
\*\* SOURCE: NAS PENSACOLA      CITY: PENSACOLA      ST: FL      STOP: 00/00/00      \*\*  
\*\* STATION ID: SF-T38-001      COLLECTION START: 10/24/95      0845      \*\*  
\*\*\*

RESULTS      UNITS      PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 181 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T38-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0845 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

50U ALDRIN	500U PCB-1232 (ARCCLO 1232)
50U HEPTACHLOR	500U PCB-1248 (ARCCLO 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (ARCCLO 1260)
50U ALPHA-BHC	500U PCB-1016 (ARCCLO 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
50U DELTA-BHC	-- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	-- BETA-CHLORDENE /2
5.3J DIELDRIN	-- GAMMA-CHLORDENE /2
50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
50U 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
50U ENDRIN	-- CIS-NONACHLOR /2
50U ENDOSULFAN II (BETA)	-- OXYCHLORDANE (OCTACHLOROPOXIDE) /2
50U ENDOSULFAN SULFATE	200U METHOXYCHLOR
200U CHLORDANE (TECH. MIXTURE) /1	50U ENDRIN KETONE
500U PCB-1242 (ARCCLO 1242)	5.0 PERCENT MOISTURE
500U PCB-1254 (ARCCLO 1254)	
500U PCB-1221 (ARCCLO 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METAEOILITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS M 'GEMENT SYSTEM  
EPA-REGION IV ES THENS, GA. 1 5/95

EXTRACTABLE C JCS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 181  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T38-001

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0845 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS  
ANALYTICAL RESULTS

4200U	(3-AND/OR 4-) METHYLPHENOL	260J	BENZO (GHI) PERYLENE
4200U	1,2,4-TRICHLOROBENZENE	4200U	BENZO-A-PYRENE
4200U	2,2'-CHLOROISOPROPYLETHER	4200U	BENZYL BUTYL PHTHALATE
4200U	2,3,4,6-TETRACHLOROPHENOL	4200U	BIS(2-CHLOROETHOXY) METHANE
4200U	2,4,5-TRICHLOROPHENOL	4200U	BIS(2-CHLOROETHYL) ETHER
4200U	2,4,6-TRICHLOROPHENOL	4200U	BIS(2-ETHYLHEXYL) PHTHALATE
4200U	2,4-DICHLOROPHENOL	4200U	CARBAZOLE
4200U	2,4-DIMETHYLPHENOL	4200U	CHRYSENE
8400U	2,4-DINITROPHENOL	4200U	DI-N-BUTYLPHTHALATE
4200U	2,4-DINITROTOLUENE	4200U	DI-N-OCTYLPHTHALATE
4200U	2,6-DINITROTOLUENE	4200U	DIBENZO(A,H)ANTHRACENE
4200U	2-CHLORONAPHTHALENE	4200U	DIBENZOFURAN
4200U	2-CHLOROPHENOL	4200U	DIETHYL PHTHALATE
8400U	2-METHYL-4,6-DINITROPHENOL	4200U	DIMETHYL PHTHALATE
4200U	2-METHYLNAPHTHALENE	4200U	FLUORANTHENE
4200U	2-METHYLPHENOL	4200U	FLUORENE
4200U	2-NITROANILINE	4200U	HEXACHLOROBENZENE (HCB)
4200U	2-NITROPHENOL	4200U	HEXACHLOROBUTADIENE
4200U	3,3'-DICHLOBENZIDINE	4200U	HEXACHLOROCYCLOPENTADIENE (HCCP)
4200U	3-NITROANILINE	4200U	HEXACHLOROETHANE
4200U	4-BROMOPHENYL PHENYL ETHER	4200U	INDENO (1,2,3-CD) PYRENE
4200U	4-CHLORO-3-METHYLPHENOL	4200U	ISOPHORONE
4200U	4-CHLOROANILINE	4200U	N-NITROSODI-N-PROPYLAMINE
4200U	4-CHLOROPHENYL PHENYL ETHER	4200U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4200U	4-NITROANILINE	4200U	NAPHTHALENE
8400U	4-NITROPHENOL	4200U	NITROBENZENE
4200U	ACENAPHTHENE	8400U	PENTACHLOROPHENOL
4200U	ACENAPHTHYLENE	4200U	PHENANTHRENE
4200U	ANTHRACENE	4200U	PHENOL
4200U	BENZO(A)ANTHRACENE	4200U	PYRENE
230J	BENZO(B AND/OR K)FLUORANTHENE	5.0	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 181 SAMPLE TYPE: SOIL, PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SF-T38-001 COLLECTION START: 10/24/95 0845 STOP: 00/00/00  
\*\*

UG/KG		ANALYTICAL RESULTS		UG/KG		ANALYTICAL RESULTS	
48U	CHLOROMETHANE			48U	CIS-1,3-DICHLOROPROPENE		
48U	VINYL CHLORIDE			120U	METHYL ISOBUTYL KETONE		
48U	BROMOMETHANE			5.9J	TOLUENE		
48U	CHLOROETHANE			48U	TRANS-1,3-DICHLOROPROPENE		
48U	TRICHLOROFLUOROMETHANE			48U	1,1,2-TRICHLOROETHANE		
48U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)			48U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)		
48U	ACETONE			48U	1,3-DICHLOROPROPANE		
120U	CARBON DISULFIDE			120U	METHYL BUTYL KETONE		
48U	METHYLENE CHLORIDE			48U	DIBROMOCHLOROMETHANE		
48U	TRANS-1,2-DICHLOROETHENE			48U	CHLOROBENZENE		
48U	1,1-DICHLOROETHANE			48U	1,1,1,2-TETRACHLOROETHANE		
48U	CIS-1,2-DICHLOROETHENE			48U	ETHYL BENZENE		
48U	2,2-DICHLOROPROPANE			48U	(M- AND/OR P-) XYLENE		
48U	METHYL ETHYL KETONE			48U	O-XYLENE		
48U	BROMOCHLOROMETHANE			48U	STYRENE		
48U	CHLOROFORM			48U	BROMOFORM		
48U	1,1,1-TRICHLOROETHANE			48U	BROMOBENZENE		
48U	1,1-DICHLOROPROPENE			48U	1,1,2,2-TETRACHLOROETHANE		
48U	CARBON TETRACHLORIDE			48U	1,2,3-TRICHLOROPROPANE		
48U	1,2-DICHLOROETHANE			48U	O-CHLOROTOLUENE		
48U	BENZENE			48U	P-CHLOROTOLUENE		
48U	TRICHLOROETHENE (TRICHLOROETHYLENE)			48U	1,3-DICHLOROBENZENE		
48U	1,2-DICHLOROPROPANE			48U	1,4-DICHLOROBENZENE		
48U	DIBROMOMETHANE			48U	1,2-DICHLOROBENZENE		
48U	BROMODICHLOROMETHANE			5.0	PERCENT MOISTURE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS EPA REGION IV ES GEMENT SYSTEM THENS, GA.

5/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 182 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T39-001

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0850 STOP: 00/00/00

ANALYTICAL RESULTS

MG/KG

ANALYTICAL RESULTS

2.00 SILVER 1200 CALCIUM  
6.00 ARSENIC 290 MAGNESIUM  
NA BORON 8200 IRON  
16 BARIUM 2000 SODIUM  
1.00 BERYLLIUM 4000 POTASSIUM  
2.5 CADMIUM 6 PERCENT MOISTURE  
2.00 COBALT  
20 CHROMIUM  
43 COPPER  
2.00 MOLYBDENUM  
4.00 NICKEL  
110 LEAD  
6.00 ANTIMONY  
8.00 SELENIUM  
160 TIN  
5.5 STRONTIUM  
100 TELLURIUM  
100 TITANIUM  
200 THALLIUM  
21 VANADIUM  
2.00 YTTRIUM  
290 ZINC  
NA ZIRCONIUM  
0.10 MERCURY  
13000 ALUMINUM  
94 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

**SAMPLE AND ANALYSIS MANAGEMENT SYSTEM**  
**EPA-REGION IV ESD, ATHENS, GA.**

12/18/95

## SPECIFIED ANALYSIS DATA REPORT

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SPECIFIED ANALYSIS DATA REPORT
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** 
** PROJECT NO. 96-0002 SAMPLE NO. 182 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SF-T39-001
**
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** 
** PROG ELEM: SSF COLLECTED BY: D HUNTER
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/24/95 0850 STOP: 00/00/00
**

```

RESULTS	UNITS	PARAMETER
0.21U	MG/KG	CYANIDE

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS  
EPA-REGION IV  
ATHENS, GA.

0/95

PESTICIDES/PC...S DATA REPORT

PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T39-001  
SAMPLE NO. 182  
SAMPLE TYPE: SOIL  
PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/24/95  
STOP: 00/00/00  
ST: FL  
HUNTER

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

UG/KG

50U ALDRIN	500U PCB-1232 (AROCCLOR 1232)
50U HEPTACHLOR	500U PCB-1248 (AROCCLOR 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROCCLOR 1260)
50U ALPHA-BHC	500U PCB-1016 (AROCCLOR 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
50U DELTA-BHC	-- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	-- BETA-CHLORDENE /2
50U DIELDRIN	-- GAMMA-CHLORDENE /2
50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
50U 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
50U ENDRIN	-- CIS-NONACHLOR /2
50U ENDOSULFAN II (BETA)	-- OXYCHLORDANE (OCTACHLOROPOXIDE) /2
50U ENDOSULFAN SULFATE	200U METHOXYCHLOR
200U CHLORDANE (TECH. MIXTURE) /1	50U ENDRIN KETONE
500U PCB-1242 (AROCCLOR 1242)	6.3 PERCENT MOISTURE
500U PCB-1254 (AROCCLOR 1254)	
500U PCB-1221 (AROCCLOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.  
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
C-CONFIRMED BY GC/MS



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 182 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SF-T39-001 COLLECTION START: 10/24/95 0850 STOP: 00/00/00  
\*\*

UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

4500U	(3-AND/OR 4-) METHYLPHENOL	4500U	BENZO (GHI) PERYLENE
4500U	1,2,4-TRICHLOROBENZENE	4500U	BENZO-A-PYRENE
4500U	2,2'-CHLOROISOPROPYLETHYER	4500U	BENZYL BUTYL PHTHALATE
4500U	2,3,4,6-TETRACHLOROPHENOL	4500U	BIS(2-CHLOROETHOXY) METHANE
4500U	2,4,5-TRICHLOROPHENOL	4500U	BIS(2-CHLOROETHYL) ETHER
4500U	2,4,6-TRICHLOROPHENOL	4500U	BIS(2-ETHYLHEXYL) PHTHALATE
4500U	2,4-DICHLOROPHENOL	4500U	CARBAZOLE
4500U	2,4-DIMETHYLPHENOL	4500U	CHRYSENE
9100U	2,4-DINITROPHENOL	4500U	DI-N-BUTYLPHTHALATE
4500U	2,4-DINITROTOLUENE	4500U	DI-N-OCTYLPHTHALATE
4500U	2,6-DINITROTOLUENE	4500U	DIBENZO (A, H) ANTHRACENE
4500U	2-CHLORONAPHTHALENE	4500U	DIBENZOFURAN
4500U	2-CHLOROPHENOL	4500U	DIETHYL PHTHALATE
9100U	2-METHYL-4,6-DINITROPHENOL	4500U	DIMETHYL PHTHALATE
4500U	2-METHYLNAPHTHALENE	4500U	FLUORANTHENE
4500U	2-METHYLPHENOL	4500U	FLUORENE
4500U	2-NITROANILINE	4500U	HEXACHLOROBENZENE (HCB)
4500U	2-NITROPHENOL	4500U	HEXACHLOROBUTADIENE
4500U	3,3'-DICHLOROBENZIDINE	4500U	HEXACHLOROCYCLOPENTADIENE (HCCP)
4500U	3-NITROANILINE	4500U	HEXACHLOROETHANE
4500U	4-BROMOPHENYL PHENYL ETHER	4500U	INDENO (1,2,3-CD) PYRENE
4500U	4-CHLORO-3-METHYLPHENOL	4500U	ISOPHORONE
4500U	4-CHLOROANILINE	4500U	N-NITROSODI-N-PROPYLAMINE
4500U	4-CHLOROPHENYL PHENYL ETHER	4500U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4500U	4-NITROANILINE	4500U	NAPHTHALENE
9100U	4-NITROPHENOL	4500U	NITROBENZENE
4500U	ACENAPHTHENE	9100U	PENTACHLOROPHENOL
4500U	ACENAPHTHYLENE	4500U	PHENANTHRENE
4500U	ANTHRACENE	4500U	PHENOL
4500U	BENZO (A) ANTHRACENE	4500U	PYRENE
4500U	BENZO (B AND/OR K) FLUORANTHENE	6.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS : GEMENT SYSTEM  
EPA-REGION IV ES THENS, GA.

1 1/95

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 182 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T39-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0850 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

49U	CHLOROMETHANE	49U	CIS-1,3-DICHLOROPROPENE
49U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
49U	BROMOMETHANE	49U	TOLUENE
49U	CHLOROETHANE	49U	TRANS-1,3-DICHLOROPROPENE
49U	TRICHLOROFLUOROMETHANE	49U	1,1,2-TRICHLOROETHANE
49U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	49U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
490U	ACETONE	49U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
49U	METHYLENE CHLORIDE	49U	DIBROMOCHLOROMETHANE
49U	TRANS-1,2-DICHLOROETHENE	49U	CHLOROBENZENE
49U	1,1-DICHLOROETHANE	49U	1,1,1,2-TETRACHLOROETHANE
49U	CIS-1,2-DICHLOROETHENE	49U	ETHYL BENZENE
49U	2,2-DICHLOROPROPANE	49U	(M- AND/OR P-) XYLENE
490U	METHYL ETHYL KETONE	49U	O-XYLENE
49U	BROMOCHLOROMETHANE	49U	STYRENE
49U	CHLOROFORM	49U	BROMOFORM
49U	1,1,1-TRICHLOROETHANE	49U	BROMOBENZENE
49U	1,1-DICHLOROPROPENE	49U	1,1,2,2-TETRACHLOROETHANE
49U	CARBON TETRACHLORIDE	49U	1,2,3-TRICHLOROPROPANE
49U	1,2-DICHLOROETHANE	49U	O-CHLOROTOLUENE
49U	BENZENE	49U	P-CHLOROTOLUENE
49U	TRICHLOROETHENE (TRICHLOROETHYLENE)	49U	1,3-DICHLOROBENZENE
49U	1,2-DICHLOROPROPANE	49U	1,4-DICHLOROBENZENE
49U	DIBROMOMETHANE	49U	1,2-DICHLOROBENZENE
49U	BROMODICHLOROMETHANE	6.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 185 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T42-001  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0920 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.00 SILVER  
3.00 ARSENIC  
NA BORON  
24 BARIUM  
0.50U BERYLLIUM  
21 CADMIUM  
2.00 COBALT  
40 CHROMIUM  
190A COPPER  
1.00 MOLYBDENUM  
18A NICKEL  
270 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
16A TIN  
5.4 STRONTIUM  
5.00 TELLURIUM  
30 TITANIUM  
10U THALLIUM  
2.8 VANADIUM  
1.00 YTTRIUM  
280 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
1600 ALUMINUM  
34 MANGANESE

1900 CALCIUM  
300 MAGNESIUM  
2400 IRON  
100U SODIUM  
200U POTASSIUM  
1 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS EPA-REGION IV ES1 GEMENT SYSTEM ATHENS, GA. 11/18/95

SPECIFIED ANALYSIS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 185  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T42-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0920 STOP: 00/00/00

RESULTS UNITS PARAMETER  
NAI MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 185 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T42-001  
\*\* PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\* CITY: PENSACOLA ST: FL  
\*\* COLLECTION START: 10/24/95 0920 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

50U ALDRIN	500U PCB-1232 (AROCOR 1232)
50U HEPTACHLOR	500U PCB-1248 (AROCOR 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROCOR 1260)
50U ALPHA-BHC	500U PCB-1016 (AROCOR 1016)
56N BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
300N DELTA-BHC	-- ALPHA-CHLORDENE /2
7.4JN ENDOSULFAN I (ALPHA)	-- BETA-CHLORDENE /2
50U DIELDRIN	-- GAMMA-CHLORDENE /2
50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
50U 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
7.1JN ENDRIN	-- CIS-NONACHLOR /2
11JN ENDOSULFAN II (BETA)	-- OXYCHLORDANE (CCTACHLOREPOXIDE) /2
70N ENDOSULFAN SULFATE	200U METHOXYCHLOR
200U CHLORDANE (TECH. MIXTURE)	50U ENDRIN KETONE
500U PCB-1242 (AROCOR 1242)	1.0 PERCENT MOISTURE
500U PCB-1254 (AROCOR 1254)	
500U PCB-1221 (AROCOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

EXTRACTABLE ORG.../CS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 185 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T42-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0920 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
20000U	(3-AND/OR 4-) METHYLPHENOL	20000U	BENZO (GHI) PERYLENE
20000U	1,2,4-TRICHLOROBENZENE	20000U	BENZO-A-PYRENE
20000U	2,2'-CHLOROISOPROPYLETHER	20000U	BENZYL BUTYL PHTHALATE
20000U	2,3,4,6-TETRACHLOROPHENOL	20000U	BIS (2-CHLOROETHOXY) METHANE
20000U	2,4,5-TRICHLOROPHENOL	20000U	BIS (2-CHLOROETHYL) ETHER
20000U	2,4,6-TRICHLOROPHENOL	20000U	BIS (2-ETHYLHEXYL) PHTHALATE
20000U	2,4-DICHLOROPHENOL	20000U	CARBAZOLE
20000U	2,4-DIMETHYLPHENOL	20000U	CHRYSENE
40000U	2,4-DINITROPHENOL	20000U	DI-N-BUTYLPHTHALATE
20000U	2,4-DINITROTOLUENE	20000U	DI-N-OCTYLPHTHALATE
20000U	2,6-DINITROTOLUENE	20000U	DIBENZO (A,H) ANTHRACENE
20000U	2-CHLORONAPHTHALENE	20000U	DIBENZOFURAN
20000U	2-CHLOROPHENOL	20000U	DIETHYL PHTHALATE
40000U	2-METHYL-4,6-DINITROPHENOL	20000U	DIMETHYL PHTHALATE
20000U	2-METHYLNAPHTHALENE	20000U	FLUORANTHENE
20000U	2-METHYLPHENOL	20000U	FLUORENE
20000U	2-NITROANILINE	20000U	HEXACHLOROBENZENE (HCB)
20000U	2-NITROPHENOL	20000U	HEXACHLOROBUTADIENE
20000U	3,3'-DICHLOROBENZIDINE	20000U	HEXACHLOROCYCLOPENTADIENE (HCCP)
20000U	3-NITROANILINE	20000U	HEXACHLOROETHANE
20000U	4-BROMOPHENYL PHENYL ETHER	20000U	INDENO (1,2,3-CD) PYRENE
20000U	4-CHLORO-3-METHYLPHENOL	20000U	ISOPHORONE
20000U	4-CHLOROANILINE	20000U	N-NITROSODI-N-PROPYLAMINE
20000U	4-CHLOROPHENYL PHENYL ETHER	20000U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20000U	4-NITROANILINE	20000U	NAPHTHALENE
40000U	4-NITROPHENOL	20000U	NITROBENZENE
20000U	ACENAPHTHENE	40000U	PENTACHLOROPHENOL
20000U	ACENAPHTHYLENE	20000U	PHENANTHRENE
20000U	ANTHRACENE	20000U	PHENOL
20000U	BENZO (A) ANTHRACENE	20000U	PYRENE
20000U	BENZO (B AND/OR K) FLUORANTHENE	1.0	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

## MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** 
** PROJECT NO. 96-0002 SAMPLE NO. 185 SAMPLE TYPE: SOIL          PROG ELEM: SSF   COLLECTED BY: D HUNTER      **
** SOURCE: NAS PENSACOLA                                CITY: PENSACOLA        ST: FL              **
** STATION ID: SF-T42-001                               COLLECTION START: 10/24/95 0920 STOP: 00/00/00    **
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** 
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## ANALYTICAL RESULTS UG/KG

**N PETROLEUM PRODUCT**

## \*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
 \*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS  
EPA REGION IV E.

AGEMENT SYSTEM  
ATHENS, GA.

04/95

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 185  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T42-001

SAMPLE TYPE: SOIL

PROG ELEM: SSF

COLLECTED BY: D HUNTER

CITY: PENSACOLA

ST: FL

COLLECTION START: 00/24/95 0920

STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

ANALYTICAL RESULTS

84UJ	CHLOROMETHANE	84UJ	CIS-1,3-DICHLOROPROPENE
84UJ	VINYL CHLORIDE	210UJ	METHYL ISOBUTYL KETONE
84UJ	BROMOMETHANE	84UJ	TOLUENE
84UJ	CHLOROETHANE	84UJ	TRANS-1,3-DICHLOROPROPENE
84UJ	TRICHLOROFLUOROMETHANE	84UJ	1,1,2-TRICHLOROETHANE
84UJ	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	84UJ	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
840UJ	ACETONE	84UJ	1,3-DICHLOROPROPANE
210UJ	CARBON DISULFIDE	210UJ	METHYL BUTYL KETONE
84UJ	METHYLENE CHLORIDE	84UJ	DIBROMOCHLOROMETHANE
84UJ	TRANS-1,2-DICHLOROETHENE	84UJ	CHLOROBENZENE
84UJ	1,1-DICHLOROETHANE	84UJ	1,1,1,2-TETRACHLOROETHANE
84UJ	CIS-1,2-DICHLOROETHENE	84UJ	ETHYL BENZENE
84UJ	2,2-DICHLOROPROPANE	84UJ	(M- AND/OR P-) XYLENE
840UJ	METHYL ETHYL KETONE	84UJ	O-XYLENE
84UJ	BROMOCHLOROMETHANE	84UJ	STYRENE
84UJ	CHLOROFORM	84UJ	BROMOFORM
84UJ	1,1,1 TRICHLOROETHANE	84UJ	BROMOBENZENE
84UJ	1,1-DICHLOROPROPENE	84UJ	1,1,2,2-TETRACHLOROETHANE
84UJ	CARBON TETRACHLORIDE	84UJ	1,2,3-TRICHLOROPROPANE
84UJ	1,2-DICHLOROETHANE	84UJ	O-CHLOROTOLUENE
84UJ	BENZENE	84UJ	P-CHLOROTOLUENE
84UJ	TRICHLOROETHENE (TRICHLOROETHYLENE)	84UJ	1,3-DICHLOROBENZENE
84UJ	1,2-DICHLOROPROPANE	84UJ	1,4-DICHLOROBENZENE
84UJ	DIBROMOMETHANE	84UJ	1,2-DICHLOROBENZENE
84UJ	BROMODICHLOROMETHANE	84UJ	PERCENT MOISTURE
		1.0	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 111 SAMPLE TYPE: SOIL  
\*\* \*\* \*\* \*\* SOURCE: NAS PENSACOLA  
\*\* \*\* \*\* \*\* STATION ID: SF-T05-001  
\*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1315 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.0U SILVER  
3.0U ARSENIC  
NA BORON  
1.0U BARIUM  
0.50U BERYLLIUM  
0.50U CADMIUM  
1.0U COBALT  
1.0U CHROMIUM  
1.0U COPPER  
1.0U MOLYBDENUM  
2.0U NICKEL  
7.6 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
3.5U TIN  
1.0U STRONTIUM  
5.0U TELLURIUM  
8.7 TITANIUM  
10U THALLIUM  
1.0U VANADIUM  
1.0U YTTRIUM  
1.0U ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
18 ALUMINUM  
1.0U MANGANESE

50U CALCIUM  
10U MAGNESIUM  
24 IRON  
100U SODIUM  
200U POTASSIUM  
8 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PROJECT NO. 96-0002

SOURCE: NAS PENSACOLA

STATION ID: SF-T05-001

SAMPLE NO. 111

SAMPLE TYPE: SOIL

PROG ELEM: SSF

CITY: PENSACOLA

COLLECTION START: 10/17/95

STOP: 00/00/00

COLLECTED BY: F SLOAN

ST: FL

ANALYTICAL RESULTS										ANALYTICAL RESULTS									
UG/KG										UG/KG									
60U	CHLOROMETHANE									60U	CIS-1,3-DICHLOROPROPENE								
60U	VINYL CHLORIDE									150U	METHYL ISOBUTYL KETONE								
60U	BROMOMETHANE									60U	TOLUENE								
60U	CHLOROETHANE									60U	TRANS-1,3-DICHLOROPROPENE								
60U	TRICHLOROFLUOROMETHANE									60U	1,1,2-TRICHLOROETHANE								
60U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)									60U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)								
600U	ACETONE									60U	1,3-DICHLOROPROPANE								
150U	CARBON DISULFIDE									150U	METHYL BUTYL KETONE								
60U	METHYLENE CHLORIDE									60U	DIBROMOCHLOROMETHANE								
60U	TRANS-1,2-DICHLOROETHENE									60U	CHLOROBENZENE								
60U	1,1-DICHLOROETHANE									60U	1,1,1,2-TETRACHLOROETHANE								
60U	CIS-1,2-DICHLOROETHENE									60U	ETHYL BENZENE								
60U	2,2-DICHLOROPROPANE									60U	(M- AND/OR P-) XYLENE								
600U	METHYL ETHYL KETONE									60U	O-XYLENE								
60U	BROMOCHLOROMETHANE									60U	STYRENE								
60U	CHLOROFORM									60U	BROMOFORM								
60U	1,1,1-TRICHLOROETHANE									60U	BROMOBENZENE								
60U	1,1-DICHLOROPROPENE									60U	1,1,2,2-TETRACHLOROETHANE								
60U	CARBON TETRACHLORIDE									60U	1,2,3-TRICHLOROPROPANE								
60U	1,2-DICHLOROETHANE									60U	O-CHLOROTOLUENE								
60U	BENZENE									60U	P-CHLOROTOLUENE								
60U	TRICHLOROETHENE (TRICHLOROETHYLENE)									60U	1,3-DICHLOROBENZENE								
60U	1,2-DICHLOROPROPANE									60U	1,4-DICHLOROBENZENE								
60U	DIBROMOMETHANE									60U	1,2-DICHLOROBENZENE								
60U	BROMODICHLOROMETHANE									7.2	PERCENT MOISTURE								

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
 \*\* PROJECT NO. 96-0002 SAMPLE NO. 111 SAMPLE TYPE: SOIL, PROG ELEM: SSF COLLECTED BY: F SLOAN  
 \*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
 \*\* STATION ID: SF-T05-001 COLLECTION START: 10/17/95 1315 STOP: 00/00/00  
 \*\*

\*\*\* \*\* \*\* \*\* \* \* \* \* \* UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS

3300U	(3-AND/OR 4-) METHYLPHENOL	3300U	BENZO (GHI) PERYLENE
3300U	1,2,4-TRICHLOROBENZENE	3300U	BENZO A-PYRENE
3300U	2,2'-CHLOROISOPROPYLETHYER	3300U	BENZYL BUTYL PHTHALATE
3300U	2,3,4,6-TETRACHLOROPHENOL	3300U	BIS(2-CHLOROETH-XY) METHANE
3300U	2,4,5-TRICHLOROPHENOL	3300U	BIS(2-CHLOROETHYL) ETHER
3300U	2,4,6-TRICHLOROPHENOL	3300U	BIS(2-ETHYLHEXYL) PHTHALATE
3300U	2,4-DICHLOROPHENOL	3300U	CARRAZOLE
3300U	2,4-DIMETHYLPHENOL	3300U	CHRYSENE
6600U	2,4-DINITROPHENOL	3300U	DI-N-BUTYLPHTHALATE
3300U	2,4-DINITROTOLUENE	3300U	DI-N OCTYLPHTHALATE
3300U	2,6-DINITROTOLUENE	3300U	DIBENZO(A,H)ANTHRACENE
3300U	2-CHLORONAPHTHALENE	3300U	DIBENZOFURAN
3300U	2-CHLOROPHENOL	3300U	DIETHYL PHTHALATE
6600U	2-METHYL-4,6-DINITROPHENOL	3300U	DIMETHYL PHTHALATE
3300U	2-METHYLNAPHTHALENE	3300U	FLUORANTHENE
3300U	2 METHYLPHENOL	3300U	FLUORENE
3300U	2-NITROANILINE	3300U	HEXACHLOROBENZENE (HCB)
3300U	2-NITROPHENOL	3300U	HEXACHLOROBUTADIENE
3300U	3,3'-DICHLOROBENZIDINE	3300U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3300U	3-NITROANILINE	3300U	HEXACHLOROETHANE
3300U	4-BROMOPHENYL PHENYL ETHER	3300U	INDENO (1,2,3-CD) PYRENE
3300U	4 CHLORO-3-METHYLPHENOL	3300U	ISOPHORONE
3300U	4 CHLOROANILINE	3300U	N-NITROSODI-N-PROPYLAMINE
3300U	4 CHLOROPHENYL PHENYL ETHER	3300U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3300U	4-NITROANILINE	3300U	NAPHTHALENE
6600U	4-NITROPHENOL	3300U	NITROBENZENE
3300U	ACENAPHTHENE	6600U	PENTACHLOROPHENOL
3300U	ACENAPHTHYLENE	3300U	PHENANTHRENE
3300U	ANTHRACENE	3300U	PHENOL
3300U	BENZO(A)ANTHRACENE	3300U	PYRENE
3300U	BENZO(B AND/OR K)FLUORANTHENE	7.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS / GEMENT SYSTEM  
EPA REGION IV ES. .THENS, GA. 1 3/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 111 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T05-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/17/95 1315 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.22U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

REPRINTED ON12/18/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 95 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T05-001  
\*\* \*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1400 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

54 CALCIUM  
100 MAGNESIUM  
210 IRON  
1000 SODIUM  
2000 POTASSIUM  
19 PERCENT MOISTURE

MG/KG  
1.00 SILVER  
3.00 ARSENIC  
NA BORON  
1.00 BARIUM  
0.500 BERYLLIUM  
0.500 CADMIUM  
1.00 COBALT  
3.8 CHROMIUM  
18 COPPER  
1.00 MOLYBDENUM  
2.00 NICKEL  
17 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
3.50 TIN  
1.00 STRONTIUM  
5.00 TELLURIUM  
1.8 TITANIUM  
100 THALLIUM  
1.00 VANADIUM  
1.00 YTTRIUM  
18 ZINC  
NA ZIRCONIUM  
0.050 MERCURY  
27 ALUMINUM  
1.00 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS      AGEMENT SYSTEM      , 18/95  
EPA-REGION IV EA      ATHENS, GA.

SPECIFIED ANALYSIS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002      SAMPLE NO.      95      SAMPLE TYPE: SOIL      PROG ELEM: SSF      COLLECTED BY: F SLOAN      \*\*  
\*\* SOURCE: NAS PENSACOLA      CITY: PENSACOLA      ST: FL      STOP: 00/00/00      \*\*  
\*\* STATION ID: SB T05-001      COLLECTION START: 10/17/95      1400      \*\*  
\*\*  
\*\*\*

RESULTS      UNITS      PARAMETER  
0.250 MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
 \*\* PROJECT NO. 96-0002 SAMPLE NO. 95 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN  
 \*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
 \*\* STATION ID: SR T05-001 COLLECTION START: 10/17/95 1400 STOP: 00/00/00  
 \*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
3700U	(3-AND/OR 4-) METHYLPHENOL	3700U	BENZO (GHI) PERYLENE
3700U	1,2,4-TRICHLOROBENZENE	380J	BENZO-A-PYRENE
3700U	2,2'-CHLOROISOPROPYLETHER	3700U	BENZYL BUTYL PHTHALATE
3700U	2,3,4,5-TETRACHLOROPHENOL	3700U	BIS(2-CHLOROETHOXY) METHANE
3700U	2,4,5-TRICHLOROPHENOL	3700U	BIS(2-CHLOROETHYL) ETHER
3700U	2,4,6-TRICHLOROPHENOL	3700U	BIS(2-ETHYLHEXYL) PHTHALATE
3700U	2,4-DICHLOROPHENOL	3700U	CARBAZOLE
3700U	2,4-DIMETHYLPHENOL	1100J	CHRYSENE
7500U	2,4-DINITROPHENOL	3700U	DI-N-BUTYLPHTHALATE
3700U	2,4-DINITROTOLUENE	3700U	DI-N-OCTYLPHTHALATE
3700U	2,6-DINITROTOLUENE	3700U	DIBENZO(A,H)ANTHRACENE
3700U	2-CHLORONAPHTHALENE	3700U	DIBENZOFURAN
3700U	2-CHLOROPHENOL	3700U	DIETHYL PHTHALATE
7500U	2-METHYL-4,6-DINITROPHENOL	3700U	DIMETHYL PHTHALATE
3700U	2-METHYLNAPHTHALENE	1700J	FLUORANTHENE
3700U	2-METHYLPHENOL	790J	FLUORENE
3700U	2-NITROANILINE	3700U	HEXACHLOROBENZENE (HCB)
3700U	2-NITROPHENOL	3700U	HEXACHLOROBUTADIENE
3700U	3,3'-DICHLOROBENZIDINE	3700U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3700U	3-NITROANILINE	3700U	HEXACHLOROETHANE
3700U	4-BROMOPHENYL PHENYL ETHER	3700U	INDENO (1,2,3-CD) PYRENE
3700U	4-CHLORO-3-METHYLPHENOL	3700U	ISOPHORONE
3700U	4-CHLOROANILINE	3700U	N-NITROSODI-N-PROPYLAMINE
3700U	4-CHLOROPHENYL PHENYL ETHER	3700U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3700U	4-NITROANILINE	440J	NAPHTHALENE
7500U	4-NITROPHENOL	3700U	NITROBENZENE
1400J	ACENAPHTHENE	7500U	PENTACHLOROPHENOL
3700U	ACENAPHTHYLENE	1700U	PHENANTHRENE
2000J	ANTHRACENE	3700U	PHENOL
740J	BENZO(A)ANTHRACENE	1800J	PYRENE
530J	BENZO(B AND/OR K)FLUORANTHENE	21.4	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 95 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T05-001  
\*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\*  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1400 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*\*

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

160U	CHLOROMETHANE	160U	CIS-1,3-DICHLOROPROPENE
160U	VINYL CHLORIDE	400U	METHYL ISOBUTYL KETONE
160U	BROMOMETHANE	160U	TOLUENE
160U	CHLOROETHANE	160U	TRANS-1,3-DICHLOROPROPENE
160U	TRICHLOROFLUOROMETHANE	160U	1,1,2-TRICHLOROETHANE
160U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	810J	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1600U	ACETONE	160U	1,3-DICHLOROPROPANE
400U	CARBON DISULFIDE	400U	METHYL BUTYL KETONE
160U	METHYLENE CHLORIDE	160U	DIBROMOCHLOROMETHANE
160U	TRANS-1,2-DICHLOROETHENE	160U	CHLOROBENZENE
160U	1,1-DICHLOROETHANE	160U	1,1,1,2-TETRACHLOROETHANE
160U	CIS-1,2-DICHLOROETHENE	160U	ETHYL BENZENE
160U	2,2-DICHLOROPROPANE	160U	(M- AND/OR P-) XYLENE
1600U	METHYL ETHYL KETONE	160U	O-XYLENE
160U	BROMOCHLOROMETHANE	160U	STYRENE
160U	CHLOROFORM	160U	BROMOFORM
310	1,1,1-TRICHLOROETHANE	160U	BROMOBENZENE
160U	1,1-DICHLOROPROPENE	160U	1,1,2,2-TETRACHLOROETHANE
160U	CARBON TETRACHLORIDE	160U	1,2,3-TRICHLOROPROPANE
160U	1,2-DICHLOROETHANE	160U	O-CHLOROTOLUENE
160U	BENZENE	160U	P-CHLOROTOLUENE
200	TRICHLOROETHENE (TRICHLOROETHYLENE)	160U	1,3-DICHLOROBENZENE
160U	1,2-DICHLOROPROPANE	160U	1,4-DICHLOROBENZENE
160U	DIBROMOMETHANE	280	1,2-DICHLOROBENZENE
160U	BROMODICHLOROMETHANE	21.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

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MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT
** ** ** ** **
** PROJECT NO. 96-0002 SAMPLE NO. 95 SAMPLE TYPE: SOIL          PROG ELEM: SSF   COLLECTED BY: F SLOAN      *
** SOURCE: NAS PENSACOLA                CITY: PENSACOLA    ST: FL              *
** STATION ID: SB-T05-001             COLLECTION START: 1C/17/95 1400 STOP: 00/00/00 *
** ** ** ** **
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## ANALYTICAL RESULTS UG/KG

700J TRICHLOROFLUOROETHANE  
2000J TRIMETHYLBENZENE (3 ISOMERS)  
N PETROLEUM PRODUCTS

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE                   \*NA-NOT ANALYZED                   \*N-ESTIMATED VALUE               \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN           \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 190 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-I04-001 COLLECTION START: 10/24/95 1215 STOP: 00/00/00  
\*\*

\*\*\* \*\* \*\* \*\* \* ANALYTICAL RESULTS ANALYTICAL RESULTS  
UG/L MG/L

5.0U SILVER	36 CALCIUM
15U ARSENIC	9.3 MAGNESIUM
NA BORON	0.049 IRON
5.0U BARIUM	37 SODIUM
2.5U BERYLLIUM	5.2 POTASSIUM
2.5U CADMIUM	
5.0U COBALT	
5.0U CHROMIUM	
5.0U COPPER	
5.0U MOLYBDENUM	
10U NICKEL	
2.5U LEAD	
15U ANTIMONY	
20U SELENIUM	
12U TIN	
240 STRONTIUM	
25U TELLURIUM	
5.0U TITANIUM	
50U THALLIUM	
5.0U VANADIUM	
5.0U YTTRIUM	
5.0U ZINC	
NA ZIRCONIUM	
0.2U MERCURY	
78 ALUMINUM	
24 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS ' GEMENT SYSTEM  
EPA-REGION IV ES. THENS, GA. 1 /95

SPECIFIED ANALYSIS DATA REPORT  
\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 190 SAMPLE TYPE: GROUNDWA  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: 38-104-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/24/95 1215 STOP: 00/00/00

RESULTS UNITS PARAMETER  
4.00 UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 190 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*\*  
 \*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
 \*\* STATION ID: 38-104-001 COLLECTION START: 10/24/95 1215 STOP: 00/00/00 \*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

0.50U	ALDRIN	2.0U	PCB-1232 (AROCOR 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCOR 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCOR 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCOR 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	--	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE)	1.0U	ENDRIN KETONE
2.0U	PCB-1242 (AROCOR 1242)	0.50U	
2.0U	PCB-1254 (AROCOR 1254)		
2.0U	PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN C-CONFIRMED BY GC/MS  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS  
EPA-REGION IV E

JAGEMENT SYSTEM  
ATHENS, GA.

16/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 190 SAMPLE TYPE: GROUNDWA  
CITY: PENSACOLA  
ST: FL  
COLLECTION START: 10/24/95 1215 STOP: 00/00/00

STATION ID: 38-104-001

UG/L ANALYTICAL RESULTS

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
100	(3-AND/OR 4-) METHYLPHENOL	100	BENZO(GHI) PERYLENE
100	1,2,4-TRICHLOROBENZENE	100	BENZO-A-PYRENE
100	2,2'-CHLOROISOPROPYLETHER	100	BENZYL BUTYL PHTHALATE
100	2,3,4,6-TETRACHLOROPHENOL	100	BIS(2-CHLOROETHOXY) METHANE
100	2,4,5-TRICHLOROPHENOL	100	BIS(2-CHLOROETHYL) ETHER
100	2,4,6-TRICHLOROPHENOL	100	BIS(2-ETHYLHEXYL) PHTHALATE
100	2,4-DICHLOROPHENOL	100	CARBAZOLE
100	2,4-DIMETHYLPHENOL	100	CHRYSENE
200	2,4-DINITROPHENOL	100	DI-N-BUTYLPHTHALATE
100	2,4-DINITROTOLUENE	100	DI-N-OCTYLPHTHALATE
100	2,6-DINITROTOLUENE	100	DIBENZO(A,H)ANTHRACENE
100	2-CHLORONAPHTHALENE	100	DIBENZOFURAN
100	2-CHLOROPHENOL	100	DIETHYL PHTHALATE
200	2-METHYL-4,6-DINITROPHENOL	100	DIMETHYL PHTHALATE
100	2-METHYLNAPHTHALENE	100	FLUORANTHENE
100	2-METHYLPHENOL	100	FLUORENE
100	2-NITROANILINE	100	HEXACHLOROBENZENE (HCB)
100	2-NITROPHENOL	100	HEXACHLOROBUTADIENE
100	3,3'-DICHLOROBENZIDINE	100	HEXACHLOROCYCLOPENTADIENE (HCCP)
100	3-NITROANILINE	100	HEXACHLOROETHANE
100	4-BROMOPHENYL PHENYL ETHER	100	INDENO (1,2,3-CD) PYRENE
100	4-CHLORO-3-METHYLPHENOL	100	ISOPHORONE
100	4-CHLOROANILINE	100	N-NITROSODI-N-PROPYLAMINE
100	4-CHLOROPHENYL PHENYL ETHER	100	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100	4-NITROANILINE	100	NAPHTHALENE
200	4-NITROPHENOL	100	NITROBENZENE
100	ACENAPHTHENE	200	PENTACHLOROPHENOL
100	ACENAPHTHYLENE	100	PHENANTHRENE
100	ANTHRACENE	100	PHENOL
100	BENZO(A)ANTHRACENE	100	PYRENE
100	BENZO(B AND/OR K)FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/09/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 190 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: 38-104-001 COLLECTION START: 10/24/95 1215 STOP: 00/00/00 \*\*

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
4.2	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
500	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
5.00	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE(TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS NAGEMENT SYSTEM  
EPA REGION IV I ATHENS, GA.

15/95

METALS DATA PORT

PROJECT NO. 96-0002 SAMPLE NO. 191 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-107-001

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0950 STOP: 00/00/00

ANALYTICAL RESULTS

MG/L

ANALYTICAL RESULTS

5.0U SILVER  
15U ARSENIC  
NA BORON  
5.0U BARIUM  
2.5U BERYLLIUM  
2.5U CADMIUM  
5.0U COBALT  
5.0U CHROMIUM  
5.0U COPPER  
5.0U MOLYBDENUM  
10U NICKEL  
2.5U LEAD  
15U ANTIMONY  
20U SELENIUM  
12U TIN  
430 STRONTIUM  
25U TELLURIUM  
5.0U TITANIUM  
50U THALLIUM  
5.0U VANADIUM  
5.0U YTTRIUM  
5.0U ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
74 ALUMINUM  
14 MANGANESE

41 CALCIUM  
32 MAGNESIUM  
0.38 IRON  
270 SODIUM  
24 POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 191 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\* STATION ID: 38-107-001 COLLECTION START: 10/24/95 0950 STOP: 00/00/00 \*\*\*  
\*\*\*

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS  
EPA-REGION IV E.

AGEMENT SYSTEM  
ATHENS, GA.

17/95

PESTICIDES/PCDS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 191 SAMPLE TYPE: GROUNDWA

SOURCE: NAS PENSACOLA

STATION ID: 38-107-001

PROG ELEM: SSF COLLECTED BY: D HUNTER

CITY: PENSACOLA ST: FL

COLLECTION START: 10/24/95 0950 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

0.50U	ALDRIN	2.0U	PCB-1232 (ARCCCLOR 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (ARCCCLOR 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (ARCCCLOR 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (ARCCCLOR 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	1.0U	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE)	0.50U	ENDRIN KETONE
2.0U	PCB-1242 (AROCLOR 1242)		
2.0U	PCB-1254 (AROCLOR 1254)		
2.0U	PCB-1221 (AROCLOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 191 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\* STATION ID: 38-107-001 COLLECTION START: 10/24/95 0950 STOP: 00/00/00 \*\*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

UG/L

(3-AND/OR 4-)METHYLPHENOL  
1,2,4-TRICHLOROBENZENE  
2,2'-CHLOROISOPROPYLETHER  
2,3,4,6-TETRACHLOROPHENOL  
2,4,5-TRICHLOROPHENOL  
2,4,6-TRICHLOROPHENOL  
2,4-DICHLOROPHENOL  
2,4-DIMETHYLPHENOL  
2,4-DINITROPHENOL  
2,4-DINITROTOLUENE  
2,6-DINITROTOLUENE  
2-CHLORONAPHTHALENE  
2-CHLOROPHENOL  
2-METHYL-4,6-DINITROPHENOL  
2-METHYLNAPHTHALENE  
2-METHYLPHENOL  
2-NITROANILINE  
2-NITROPHENOL  
3,3'-DICHLOROBENZIDINE  
3-NITROANILINE  
4-BROMOPHENYL PHENYL ETHER  
4-CHLORO-3-METHYLPHENOL  
4-CHLOROANILINE  
4-CHLOROPHENYL PHENYL ETHER  
4-NITROANILINE  
4-NITROPHENOL  
ACENAPHTHENE  
ACENAPHTHYLENE  
ANTHRACENE  
BENZO (A) ANTHRACENE  
BENZO (B AND/OR K) FLUORANTHENE

BENZO (GHI) PERYLENE  
BENZO-A-PYRENE  
BENZYL BUTYL FHTHALATE  
BIS (2-CHLOROETHOXY) METHANE  
BIS (2-CHLOROETHYL) ETHER  
BIS (2-ETHYLHEXYL) PHTHALATE  
CARBAZOLE  
CHRYSENE  
DI-N-BUTYLPHTHALATE  
DI-N-OCTYLPHTHALATE  
DIBENZO (A,H) ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHYL PHTHALATE  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE (HCB)  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE (HCCP)  
HEXACHLOROETHYNE  
INDENO (1,2,3-CD) PYRENE  
ISOPHORONE  
N-NITROSODI-N-PROPYLAMINE  
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
NAPHTHALENE  
NITROBENZENE  
PENTACHLOROPHENOL  
PHENANTHRENE  
PHENOL  
PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 191  
SOURCE: NAS PENSACOLA  
STATION ID: 38-107-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0950 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

5.00 CHLOROMETHANE  
1.00 VINYL CHLORIDE  
5.00 BROMOMETHANE  
5.00 CHLOROETHANE  
5.00 TRICHLOROFLUOROMETHANE  
5.00 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
5.00 ACETONE  
1.20 CARBON DISULFIDE  
5.00 METHYLENE CHLORIDE  
5.00 TRANS-1,2-DICHLOROETHENE  
5.00 1,1-DICHLOROETHANE  
5.00 CIS-1,2-DICHLOROETHENE  
5.00 2,2-DICHLOROPROPANE  
5.00 METHYL ETHYL KETONE  
5.00 BROMOCHLOROMETHANE  
5.00 CHLOROFORM  
5.00 1,1,1-TRICHLOROETHANE  
5.00 1,1-DICHLOROPROPENE  
5.00 CARBON TETRACHLORIDE  
5.00 1,2-DICHLOROETHANE  
5.00 BENZENE  
5.00 TRICHLOROETHENE (TRICHLOROETHYLENE)  
5.00 1,2-DICHLOROPROPANE  
5.00 DIBROMOMETHANE  
5.00 BROMODICHLOROMETHANE

5.00 CIS 1,3-DICHLOROPROPENE  
1.20 METHYL ISOBUTYL KETONE  
5.00 TOLUENE  
5.00 TRANS-1,3-DICHLOROPROPENE  
5.00 1,1,2-TRICHLOROETHANE  
5.00 TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
5.00 1,3-DICHLOROPROPANE  
1.20 METHYL BUTYL KETONE  
5.00 DIBROMOCHLOROMETHANE  
5.00 CHLOROBENZENE  
5.00 1,1,1,2-TETRACHLOROETHANE  
5.00 ETHYL BENZENE  
5.00 (M- AND/OR P-) XYLENE  
5.00 O-XYLENE  
5.00 STYRENE  
5.00 BROMOFORM  
5.00 BROMOBENZENE  
5.00 1,1,2,2-TETRACHLOROETHANE  
5.00 1,2,3-TRICHLOROPROPANE  
5.00 O-CHLOROTOLUENE  
5.00 P-CHLOROTOLUENE  
5.00 1,3-DICHLOROBENZENE  
5.00 1,4-DICHLOROBENZENE  
5.00 1,2-DICHLOROBENZENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 192 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: 38-108-001 COLLECTION START: 10/24/95 0935 STOP: 00/00/00 \*\*

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

2.5U SILVER	32	CALCIUM
7.5U ARSENIC	11	MAGNESIUM
NA BORON	0.046	IRON
2.5U BARIUM	85	SODIUM
1.2U BERYLLIUM	11	POTASSIUM
1.2U CADMIUM		
2.5U COBALT		
2.5U CHROMIUM		
2.5U COPPER		
2.5U MOLYBDENUM		
5.0U NICKEL		
10U LEAD		
7.5U ANTIMONY		
10U SELENIUM		
6.2U TIN		
240 STRONTIUM		
12U TELLURIUM		
2.5U TITANIUM		
25U THALLIUM		
2.5U VANADIUM		
2.5U YTTRIUM		
2.5U ZINC		
NA ZIRCONIUM		
0.2U MERCURY		
56 ALUMINUM		
6.2 MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS  
EPA-REGION IV I

AGEMENT SYSTEM  
ATHENS, GA.

18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 192 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-I08-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0935 STOP: 00/00/00

RESULTS UNITS PARAMETER  
4.00 UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

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\*\*\* \*\* \*\* \*\*  SOURCE: NAS PENSACOLA  CITY: PENSACOLA  ST: FL  STOP: 00/00/00  \*\*\* \*\* \*\* \*\*  
\*\*\* \*\* \*\* \*\*  STATION ID: 38-108-001  COLLECTION START: 10/24/95  0935  \*\*\* \*\* \*\* \*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

0.50U	ALDRIN	2.0U	PCB-1232 (AROCOR 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCOR 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCOR 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCOR 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	1.0U	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE)	0.50U	ENDRIN KETONE
2.0U	PCB-1242 (AROCOR 1242)		
2.0U	PCB-1254 (AROCOR 1254)		
2.0U	PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS: NAGEMENT SYSTEM  
EPA-REGION IV 1 ATHENS, GA.

16/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 192 ANALYTICAL RESULTS  
SOURCE: NAS PENSACOLA  
STATION ID: 38-108-001

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0935 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

100	(3-AND/OR 4-)METHYLPHENOL	100	BENZO(GHI)PERYLENE
100	1,2,4-TRICHLOROBENZENE	100	BENZO-A-PYRENE
100	2,2'-CHLOROISOPROPYLETHETHER	100	BENZYL BUTYL PHTHALATE
100	2,3,4,6-TETRACHLOROPHENOL	100	BIS(2-CHLORCETOXY) METHANE
100	2,4,5-TRICHLOROPHENOL	100	BIS(2-CHLORCETHYL) ETHER
100	2,4,6-TRICHLOROPHENOL	100	BIS(2-ETHYLHEXYL) PHTHALATE
100	2,4-DICHLOROPHENOL	100	CARBAZOLE
100	2,4-DIMETHYLPHENOL	100	CHRYSENE
200	2,4-DINITROPHENOL	100	DI-N-BUTYLPHTHALATE
100	2,4-DINITROTOLUENE	100	DI-N-OCTYLPHTHALATE
100	2,6-DINITROTOLUENE	100	DIBENZO(A,H)ANTHRACENE
100	2-CHLORONAPHTHALENE	100	DIBENZOFURAN
100	2-CHLOROPHENOL	100	DIETHYL PHTHALATE
200	2-METHYL-4,6-DINITROPHENOL	100	DIMETHYL PHTHALATE
100	2-METHYLNAPHTHALENE	100	FLUORANTHENE
100	2-METHYLPHENOL	100	FLUORENE
100	2-NITROANILINE	100	HEXACHLOROBENZENE (HCB)
100	2-NITROPHENOL	100	HEXACHLOROBUTADIENE
100	3,3'-DICHLOROBENZIDINE	100	HEXACHLOROCYCLOPENTADIENE (HCCP)
100	3-NITROANILINE	100	HEXACHLOROETHANE
100	4-BROMOPHENYL PHENYL ETHER	100	INDENO (1,2,3-CD) PYRENE
100	4-CHLORO-3-METHYLPHENOL	100	ISOPHORONE
100	4-CHLOROANILINE	100	N-NITROSODI-N-PROPYLAMINE
100	4-CHLOROPHENYL PHENYL ETHER	100	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100	4-NITROANILINE	100	NAPHTHALENE
200	4-NITROPHENOL	100	NITROBENZENE
100	ACENAPHTHENE	200	PENTACHLOROENHOL
100	ACENAPHTHYLENE	100	PHENANTHRENE
100	ANTHRACENE	100	PHENOL
100	BENZO(A)ANTHRACENE	100	PYRENE
100	BENZO(B AND/OR K)FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/09/95

\*\*\* PROJECT NO. 96 0002 SAMPLE NO. 192 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\*\* STATION ID: 38-108-001 COLLECTION START: 10/24/95 0935 STOP: 00/00/00 \*\*\*

\*\*\* UG/L ANALYTICAL RESULTS ANALYTICAL RESULTS \*\*\*

5.0U	CHLOROMETHANE	5.0U	CIS-1,3-DICHLOROPROPENE
1.9	VINYL CHLORIDE	12U	METHYL ISOBUTYL KETONE
5.0U	BROMOMETHANE	5.0U	TOLUENE
5.0U	CHLOROETHANE	5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	TRICHLOROFLUOROMETHANE	5.0U	1,1,2-TRICHLOROETHANE
5.0U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	5.0U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
50U	ACETONE	5.0U	1,3-DICHLOROPROPANE
12U	CARBON DISULFIDE	12U	METHYL BUTYL KETONE
5.0U	METHYLENE CHLORIDE	5.0U	DIBROMOCHLOROMETHANE
5.0U	TRANS-1,2-DICHLOROETHENE	5.0U	CHLOROBENZENE
5.0U	1,1-DICHLOROETHANE	5.0U	1,1,1,2-TETRACHLOROETHANE
5.0U	CIS-1,2-DICHLOROETHENE	5.0U	ETHYL BENZENE
5.0U	2,2-DICHLOROPROPANE	5.0U	(M- AND/OR P-) XYLENE
50U	METHYL ETHYL KETONE	5.0U	O-XYLENE
5.0U	BROMOCHLOROMETHANE	5.0U	STYRENE
5.0U	CHLOROFORM	5.0U	BROMOFORM
5.0U	1,1,1-TRICHLOROETHANE	5.0U	BROMOBENZENE
5.0U	1,1-DICHLOROPROPENE	5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	CARBON TETRACHLORIDE	5.0U	1,2,3-TRICHLOROPROPANE
5.0U	1,2-DICHLOROETHANE	5.0U	O-CHLOROTOLUENE
5.0U	BENZENE	5.0U	P-CHLOROTOLUENE
5.0U	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.0U	1,3-DICHLOROBENZENE
5.0U	1,2-DICHLOROPROPANE	5.0U	1,4-DICHLOROBENZENE
5.0U	DIBROMOMETHANE	5.0U	1,2-DICHLOROBENZENE
5.0U	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYS: ANAGEMENT SYSTEM  
EPA-REGION IV , ATHENS, GA.

/15/95

METALS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 140 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-109-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1550 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/L

32 CALCIUM  
26 MAGNESIUM  
0.0250 IRON  
200 SODIUM  
12 POTASSIUM

5.0U SILVER  
15U ARSENIC  
NA BORON  
22 BARIUM  
2.5U BERYLLIUM  
2.5U CADMIUM  
5.0U COBALT  
5.0U CHROMIUM  
5.0U COPPER  
5.0U MOLYBDENUM  
10U NICKEL  
2.5U LEAD  
15U ANTIMONY  
20U SELENIUM  
12U TIN  
270 STRONTIUM  
25U TELLURIUM  
5.0U TITANIUM  
50U THALLIUM  
5.0U VANADIUM  
5.0U YTTRIUM  
5.0U ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
75 ALUMINUM  
16 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 140 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: 38-109-001 COLLECTION START: 10/23/95 1550 STOP: 00/00/00 \*\*  
\*\*\*

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYS ANAGEMENT SYSTEM  
EPA-REGION IV J, ATHENS, GA.

11/03/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 140 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-109-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START. 10/23/95 1550 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

0.25U	ALDRIN	1.2U	PCB-1232 (AROCOR 1232)
0.25U	HEPTACHLOR	1.2U	PCB-1248 (AROCOR 1248)
0.25U	HEPTACHLOR EPOXIDE	1.2U	PCB-1260 (AROCOR 1260)
0.25U	ALPHA-BHC	1.2U	PCB-1016 (AROCOR 1016)
0.25U	BETA-BHC	10U	TOXAPHENE
0.25U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.25U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.25U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
0.25U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.25U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.25U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.25U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.25U	ENDRIN	--	CIS-NONACHLOR /2
0.25U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.25U	ENDOSULFAN SULFATE	--	METHOXYCHLOR
0.62U	CHLORDANE (TECH. MIXTURE)	0.62U	ENDRIN KETONE
1.2U	PCB-1242 (AROCOR 1242)		
1.2U	PCB-1254 (AROCOR 1254)		
1.2U	PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
 \*\* PROJECT NO. 96-0002 SAMPLE NO. 140 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
 \*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
 \*\* STATION ID: 38-109-001 COLLECTION START: 10/23/95 1550 STOP: 00/00/00  
 \*\*

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

100 (3-AND/OR 4-)METHYLPHENOL	100 BENZO(GHI)PERYLENE
100 1,2,4-TRICHLOROBENZENE	100 BENZO-A-PYRENE
100 2,2'-CHLOROISOPROPYLETHER	100 BENZYL BUTYL PHTHALATE
100 2,3,4,6-TETRACHLOROPHENOL	100 BIS(2-CHLOROETHOXY) METHANE
100 2,4,5-TRICHLOROPHENOL	100 BIS(2-CHLOROETHYL) ETHER
100 2,4,6-TRICHLOROPHENOL	100 BIS(2-ETHYLHEXYL) PHTHALATE
100 2,4-DICHLOROPHENOL	100 CARBAZOLE
100 2,4-DIMETHYLPHENOL	100 CHRYSENE
200 2,4-DINITROPHENOL	100 DI-N-BUTYLPHTHALATE
100 2,4-DINITROTOLUENE	100 DI-N-OCTYLPHTHALATE
100 2,6-DINITROTOLUENE	100 DIBENZO(A,H)ANTHRACENE
100 2-CHLORONAPHTHALENE	100 DIBENZOFURAN
100 2-CHLOROPHENOL	100 DIETHYL PHTHALATE
200 2-METHYL-4,6-DINITROPHENOL	100 DIMETHYL PHTHALATE
100 2-METHYLNAPHTHALENE	100 FLUORANTHENE
100 2-METHYLPHENOL	100 FLUORENE
100 2-NITROANILINE	100 HEXACHLOROBENZENE (HCB)
100 2-NITROPHENOL	100 HEXACHLOROBUTADIENE
100 3,3'-DICHLOROBENZIDINE	100 HEXACHLOROCYCLOPENTADIENE (HCCP)
100 3-NITROANILINE	100 HEXACHLOROETHANE
100 4-BROMOPHENYL PHENYL ETHER	100 INDENO (1,2,3-CD) PYRENE
100 4-CHLORO-3-METHYLPHENOL	100 ISOPHORONE
100 4-CHLOROANILINE	100 N-NITROSODI N PROPYLAMINE
100 4-CHLOROPHENYL PHENYL ETHER	100 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100 4-NITROANILINE	100 NAPHTHALENE
200 4-NITROPHENOL	100 NITROBENZENE
100 ACENAPHTHENE	200 PENTACHLOROPHENOL
100 ACENAPHTHYLENE	100 PHENANTHRENE
100 ANTHRACENE	100 PHENOL
100 BENZO(A)ANTHRACENE	100 PYRENE
100 BENZO(B AND/OR K)FLUORANTHENE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYS: ANAGEMENT SYSTEM  
EPA-REGION IV BOD, ATHENS, GA.

11/09/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 140 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-109-001 COLLECTION START: 10/23/95 1550 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
0.99J	VINYL CHLORIDE	12U	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
50U	ACETONE	5.00	1,3-DICHLOROPROPANE
12U	CARBON DISULFIDE	12U	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
5.00	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
50U	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE(TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 141 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-110-001 COLLECTION START: 10/23/95 1555 STOP: 00/00/00  
\*\*

\*\*\* \*\* \*\* \*\* \*\*  
\*\* UG/L ANALYTICAL RESULTS MG/L ANALYTICAL RESULTS

5.0U	SILVER	12	CALCIUM
15U	ARSENIC	16	MAGNESIUM
NA	BORON	1.2	IRON
11	BARIUM	350	SODIUM
2.5U	BERYLLIUM	21	POTASSIUM
2.5U	CADMIUM		
5.0U	COBALT		
55	CHROMIUM		
5.0U	COPPER		
22	MOLYBDENUM		
10U	NICKEL		
2.5U	LEAD		
15U	ANTIMONY		
20U	SELENIUM		
12U	TIN		
140	STRONTIUM		
25U	TELLURIUM		
97	TITANIUM		
50U	THALLIUM		
140	VANADIUM		
23	YTTRIUM		
5.6	ZINC		
NA	ZIRCONIUM		
0.2U	MERCURY		
2600	ALUMINUM		
30	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS AGEMENT SYSTEM  
EPA-REGION IV ES., ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 141 SAMPLE TYPE: GROUNDWA PROG ELEM: SSP COLLECTED BY: J VAIL  
SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
STATION ID: 38-110-001 COLLECTION START: 10/23/95 1555 STOP: 00/00/00

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/03/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 141 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-I10-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1555 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

0.25U	ALDRIN	1.2U	PCB-1232 (AROCOR 1232)
0.25U	HEPTACHLOR	1.2U	PCB-1248 (AROCOR 1248)
0.25U	HEPTACHLOR EPOXIDE	1.2U	PCB-1260 (AROCOR 1260)
0.25U	ALPHA-BHC	1.2U	PCB-1016 (AROCOR 1016)
0.25U	BETA-BHC	10U	TOXAPHENE
0.25U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.25U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.25U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
0.25U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.25U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.25U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.25U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.25U	ENDRIN	--	CIS-NONACHLOR /2
0.25U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.25U	ENDOSULFAN SULFATE	0.62U	METHOXYCHLOR
0.62U	CHLORDANE (TECH. MIXTURE) /1	0.25U	ENDRIN KETONE
1.2U	PCB-1242 (AROCOR 1242)		
1.2U	PCB-1254 (AROCOR 1254)		
1.2U	PCB 1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 141 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-110-001 COLLECTION START: 10/23/95 1555 STOP: 00/00/00  
\*\*

\*\*\* \*\* \*\* \*\* \* \* \* \* \* UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10U	(3-AND/OR 4-) METHYLPHENOL	10U	BENZO (GHI) PERYLENE
10U	1,2,4-TRICHLOROBENZENE	10U	BENZO-A-PYRENE
10U	2,2'-CHLOROISOPROPYLETHER	10U	BENZYL BUTYL PHTHALATE
10U	2,3,4,6-TETRACHLOROPHENOL	10U	BIS (2-CHLOROETHOXY) METHANE
10U	2,4,5-TRICHLOROPHENOL	10U	BIS (2-CHLOROETHYL) ETHER
10U	2,4,6-TRICHLOROPHENOL	10U	BIS (2-ETHYLHEXYL) PHTHALATE
10U	2,4-DICHLOROPHENOL	10U	CARBAZOLE
10U	2,4-DIMETHYLPHENOL	10U	CHRYSENE
20U	2,4-DINITROPHENOL	10U	DI-N-BUTYL PHTHALATE
10U	2,4-DINITROTOLUENE	10U	DI-N-OCTYL PHTHALATE
10U	2,6-DINITROTOLUENE	10U	DIBENZO (A,H) ANTHRACENE
10U	2-CHLORONAPHTHALENE	10U	DIBENZOFURAN
10U	2-CHLOROPHENOL	10U	DIETHYL PHTHALATE
20U	2-METHYL-4,6-DINITROPHENOL	10U	DIMETHYL PHTHALATE
10U	2-METHYLNAPHTHALENE	10U	FLUORANTHENE
10U	2-METHYLPHENOL	10U	FLUORENE
10U	2-NITROANILINE	10U	HEXACHLOROBENZENE (HCB)
10U	2-NITROPHENOL	10U	HEXACHLOROBUTADIENE
10U	3,3'-DICHLOROBENZIDINE	10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	3-NITROANILINE	10U	HEXACHLOROETHANE
10U	4-BROMOPHENYL PHENYL ETHER	10U	INDENO (1,2,3-CD) PYRENE
10U	4-CHLORO-3-METHYLPHENOL	10U	ISOPHORONE
10U	4-CHLOROANILINE	10U	N-NITROSODI-N-PROPYLAMINE
10U	4-CHLOROPHENYL PHENYL ETHER	10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	4-NITROANILINE	10U	NAPHTHALENE
10U	4-NITROPHENOL	10U	NITROBENZENE
10U	ACENAPHTHENE	20U	PENTACHLOROPHENOL
10U	ACENAPHTHYLENE	10U	PHENANTHRENE
10U	ANTHRACENE	10U	PHENOL
10U	BENZO (A) ANTHRACENE	10U	PYRENE
10U	BENZO (B AND/OR K) FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



11/09/95

11/09/95

11/09/95

## ANALYTICAL RESULTS

## ANALYTICAL RESULTS

## ANALYTICAL RESULTS

★★★REMARKS★★★

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS  
EPA-REGION IV B  
ATHENS, GA.

METALS DATA REPORT  
PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: GW-T05-001

SAMPLE NO. 138  
SAMPLE TYPE: GROUNDWA  
PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/18/95 1635  
STOP: 00/00/00

15/95

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/L

5.00	SILVER	18	CALCIUM
300	ARSENIC	24	MAGNESIUM
NA	BORON	1.8	IRON
15	BARIUM	600	SODIUM
2.50	BERYLLIUM	36	POTASSIUM
2.50	CADMIUM		
5.00	COBALT		
87	CHROMIUM		
5.00	COPPER		
31	MOLYBDENUM		
100	NICKEL		
2.8	LEAD		
150	ANTIMONY		
200	SELENIUM		
120	TIN		
200	STRONTIUM		
250	TELLURIUM		
140	TITANIUM		
500	THALLIUM		
230	VANADIUM		
52	YTTRIUM		
5.00	ZINC		
NA	ZIRCONIUM		
0.20	MERCURY		
1800	ALUMINUM		
20	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

**SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.**

11/09/95

**MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT**

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*** ** PROJECT NO. 96-0002 SAMPLE NO. 141 SAMPLE TYPE: GROUNDWA ***
** SOURCE: NAS PENSACOLA ***
** STATION ID: 38-110-001 ***
*** ** PROG ELEM: SSF COLLECTED BY: J VAIL ***
** CITY: PENSACOLA ST: FL ***
** COLLECTION START: 10/23/95 1555 STOP: 00/00/00 ***

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## ANALYTICAL RESULTS UG/L

10JN DIISOPROPYLETHER

## \*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



SAMPLE AND ANALYSIS NAGEMENT SYSTEM  
EPA-REGION IV BSS, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 138 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\*\* STATION ID: GW-T05-001 COLLECTION START: 10/18/95 1635 STOP: 00/00/00  
\*\*\*

RESULTS UNITS PARAMETER  
4.00 UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/03/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 138 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GW-T05-001 COLLECTION START: 10/18/95 1635 STOP: 00/00/00 \*\*

UG/L ANALYTICAL RESULTS

0.25U ALDRIN  
0.25U HEPTACHLOR  
0.25U HEPTACHLOR EPOXIDE  
0.25U ALPHA-BHC  
0.25U BETA-BHC  
0.25U GAMMA-BHC (LINDANE)  
0.25U DELTA-BHC  
0.25U ENDOSULFAN I (ALPHA)  
0.25U DIELDRIN  
0.25U 4,4'-DDT (P,P'-DDT)  
0.25U 4,4'-DDE (P,P'-DDE)  
0.25U 4,4'-DDD (P,P'-DDD)  
0.25U ENDRIN  
0.25U ENDOSULFAN II (BETA)  
0.25U ENDOSULFAN SULFATE  
0.62U CHLORDANE (TECH. MIXTURE) /1  
1.2U PCB-1242 (AROCOR 1242)  
1.2U PCB-1254 (AROCOR 1254)  
1.2U PCB-1221 (AROCOR 1221)

UG/L ANALYTICAL RESULTS

1.2U PCB-1232 (AROCOR 1232)  
1.2U PCB-1248 (AROCOR 1248)  
1.2U PCB-1260 (AROCOR 1260)  
1.2U PCB-1016 (AROCOR 1016)  
10U TOXAPHENE /2  
-- CHLORDENE /2  
-- ALPHA-CHLORDENE /2  
-- BETA-CHLORDENE /2  
-- GAMMA-CHLORDENE /2  
-- GAMMA-CHLORDANE /2  
-- TRANS-NONACHLOR /2  
-- ALPHA-CHLORDANE /2  
-- CIS-NONACHLOR /2  
-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2  
0.62U METHOXYCHLOR  
0.25U ENDRIN KETONE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS IAGEMENT SYSTEM  
EPA-REGION IV ES., ATHENS, GA.

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 138 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GW-T05-001 COLLECTION START: 00/18/95 1635 STOP: 00/00/00 \*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

10U (3-AND/OR 4-)METHYLPHENOL  
10U 1,2,4-TRICHLOROBENZENE  
10U 2,2'-CHLOROISOPROPYLETHER  
10U 2,3,4,6-TETRACHLOROPHENOL  
10U 2,4,5-TRICHLOROPHENOL  
10U 2,4,6-TRICHLOROPHENOL  
10U 2,4-DICHLOROPHENOL  
10U 2,4-DIMETHYLPHENOL  
20U 2,4-DINITROPHENOL  
10U 2,4-DINITROTOLUENE  
10U 2,6-DINITROTOLUENE  
10U 2-CHLORONAPHTHALENE  
10U 2-CHLOROPHENOL  
20U 2-METHYL-4,6-DINITROPHENOL  
10U 2-METHYLNAPHTHALENE  
10U 2-METHYLPHENOL  
10U 2-NITROANILINE  
10U 2-NITROPHENOL  
10U 3,3'-DICHLOROBENZIDINE  
10U 3-NITROANILINE  
10U 4-BROMOPHENYL PHENYL ETHER  
10U 4-CHLORO-3-METHYLPHENOL  
10U 4-CHLOROANILINE  
10U 4-CHLOROPHENYL PHENYL ETHER  
10U 4-NITROANILINE  
20U 4-NITROPHENOL  
10U ACENAPHTHENE  
10U ACENAPHTHYLENE  
10U ANTHRACENE  
10U BENZO(A)ANTHRACENE  
10U BENZO(B AND/OR K)FLUORANTHENE

10U BENZO(GHI)PERYLENE  
10U BENZO-A-PYRENE  
10U BENZYL BUTYL PHTHALATE  
10U BIS(2-CHLOROETHOXY) METHANE  
10U BIS(2-CHLOROETHYL) ETHER  
10U BIS(2-ETHYLHEXYL) PHTHALATE  
10U CARBAZOLE  
10U CHRYSENE  
10U DI-N-BUTYLPHTHALATE  
10U DI-N-OCTYLPHTHALATE  
10U DIBENZO(A,H)ANTHRACENE  
10U DIBENZOFURAN  
10U DIETHYL PHTHALATE  
10U DIMETHYL PHTHALATE  
10U FLUORANTHENE  
10U FLUORENE  
10U HEXACHLOROBENZENE (HCB)  
10U HEXACHLOROBUTADIENE  
10U HEXACHLOROCYCLOPENTADIENE (HCCP)  
10U HEXACHLOROETHANE  
10U INDENO(1,2,3-CD) PYRENE  
10U ISOPHORONE  
10U N-NITROSODI-N-PROPYLAMINE  
10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
1.4J NAPHTHALENE  
10U NITROBENZENE  
20U PENTACHLOROPHENOL  
3.7J PHENANTHRENE  
10U PHENOL  
10U PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/09/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 138 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: P SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: GW-T05-001 COLLECTION START: 10/18/95 1635 STOP: 00/00/00  
\*\*

ANALYTICAL RESULTS

UG/L

5.0U CHLOROMETHANE  
1.0U VINYL CHLORIDE  
5.0U BROMOMETHANE  
5.0U CHLOROETHANE  
5.0U TRICHLOROFLUOROMETHANE  
5.0U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
500 ACETONE  
12U CARBON DISULFIDE  
5.0U METHYLENE CHLORIDE  
5.0U TRANS-1,2-DICHLOROETHENE  
1.2J 1,1-DICHLOROETHANE  
5.0U CIS-1,2-DICHLOROETHENE  
5.0U 2,2-DICHLOROPROPANE  
500 METHYL ETHYL KETONE  
5.0U BROMOCHLOROMETHANE  
5.0U CHLOROFORM  
2.4J 1,1,1-TRICHLOROETHANE  
5.0U 1,1-DICHLOROPROPENE  
5.0U CARBON TETRACHLORIDE  
5.0U 1,2-DICHLOROETHANE  
5.0U BENZENE  
2.0J TRICHLOROETHENE (TRICHLOROETHYLENE)  
5.0U 1,2-DICHLOROPROPANE  
5.0U DIBROMOMETHANE  
5.0U BROMODICHLOROMETHANE

ANALYTICAL RESULTS

UG/L

5.0U CIS-1,3-DICHLOROPROPENE  
12U METHYL ISOBUTYL KETONE  
5.0U TOLUENE  
5.0U TRANS-1,3-DICHLOROPROPENE  
5.0U 1,1,2-TRICHLOROETHANE  
2.8J TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
5.0U 1,3-DICHLOROPROPANE  
12U METHYL BUTYL KETONE  
5.0U DIBROMOCHLOROMETHANE  
5.0U CHLOROBENZENE  
5.0U 1,1,1,2-TETRACHLOROETHANE  
5.0U ETHYL BENZENE  
5.0U (M- AND/OR P-) XYLENE  
5.0U O-XYLENE  
5.0U STYRENE  
5.0U BROMOFORM  
5.0U BROMOBENZENE  
5.0U 1,1,2,2-TETRACHLOROETHANE  
5.0U 1,2,3-TRICHLOROPROPANE  
5.0U O-CHLOROTOLUENE  
5.0U P-CHLOROTOLUENE  
5.0U 1,3 DICHLOROBENZENE  
5.0U 1,4 DICHLOROBENZENE  
5.0U 1,2 DICHLOROBENZENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS NAGEMENT SYSTEM  
EPA-REGION IV E... ATHENS, GA.

..09/95

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT  
\*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 138 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GW-T05-001 COLLECTION START: 10/18/95 1635 STOP: 00/00/00 \*\*  
\*\* \*\* \*\* \*\*

ANALYTICAL RESULTS UG/L

.82J 1,2,4-TRIMETHYLBENZENE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
BPA-REGION IV BSD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 142 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: 38-S23-001 COLLECTION START: 10/23/95 1300 STOP: 00/00/00 \*\*  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/L

12U SILVER	75	CALCIUM
30U ARSENIC	180	MAGNESIUM
NA BORON	0.050U	IRON
22 BARIUM	2000	SODIUM
5.0U BERYLLIUM	80	POTASSIUM
5.0U CADMIUM		
10U COBALT		
10U CHROMIUM		
10U COPPER		
10U MOLYBDENUM		
20U NICKEL		
5.6 LEAD		
30U ANTIMONY		
40U SELENIUM		
25U TIN		
1100 STRONTIUM		
50U TELLURIUM		
14 TITANIUM		
100U THALLIUM		
19 VANADIUM		
10U YTTRIUM		
10U ZINC		
NA ZIRCONIUM		
0.2U MERCURY		
260 ALUMINUM		
23 MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSI NAGEMENT SYSTEM  
EPA-REGION IV L , ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 142 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-S23-001 COLLECTION START: 10/23/95 1300 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*~

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/03/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 142 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-S23-001 COLLECTION START: 10/23/95 1300 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.25U	ALDRIN	1.2U	PCB-1232 (AROCOR 1232)
0.25U	HEPTACHLOR	1.2U	PCB-1248 (AROCOR 1248)
0.25U	HEPTACHLOR EPOXIDE	1.2U	PCB-1260 (AROCOR 1260)
0.25U	ALPHA-BHC	1.2U	PCB-1016 (AROCOR 1016)
0.25U	BETA-BHC	10U	TOXAPHENE
0.25U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.25U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.25U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
0.25U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.25U	4,4'-DDT (P,P'-DDT)	--	TRANS-NONACHLOR /2
0.25U	4,4'-DDE (P,P'-DDE)	--	ALPHA-CHLORDANE /2
0.25U	4,4'-DDD (P,P'-DDD)	--	CIS-NONACHLOR /2
0.25U	ENDRIN	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.25U	ENDOSULFAN II (BETA)	--	METHOXYCHLOR
0.25U	ENDOSULFAN SULFATE	0.62U	ENDRIN KETONE
0.62U	CHLORDANE (TECH. MIXTURE) /1		
1.2U	PCB-1242 (AROCOR 1242)		
1.2U	PCB-1254 (AROCOR 1254)		
1.2U	PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BLDG, ATHENS, GA.

-/08/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 142 SAMPLE TYPE: GROUNDWATER  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: 38-S23-001  
\*\*\* COLLECTION START: 10/23/95 1300 STOP: 00/00/00  
\*\*\* CITY: PENSACOLA  
\*\*\* COLLECTION BY: J VAIL  
\*\*\* ST: FL

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

100 (3-AND/OR 4-)METHYLPHENOL  
100 1,2,4-TRICHLOROBENZENE  
100 2,2'-CHLOROISOPROPYLETHER  
100 2,3,4,6-TETRACHLOROPHENOL  
100 2,4,5-TRICHLOROPHENOL  
100 2,4,6-TRICHLOROPHENOL  
100 2,4-DICHLOROPHENOL  
100 2,4-DIMETHYLPHENOL  
200 2,4-DINITROPHENOL  
100 2,4-DINITROTOLUENE  
100 2,6-DINITROTOLUENE  
100 2-CHLORONAPHTHALENE  
100 2-CHLOROPHENOL  
200 2-METHYL-4,6-DINITROPHENOL  
100 2-METHYLNAPHTHALENE  
100 2-METHYLPHENOL  
100 2-NITROANILINE  
100 2-NITROPHENOL  
100 3,3'-DICHLOROBENZIDINE  
100 3-NITROANILINE  
100 4-BROMOPHENYL PHENYL ETHER  
100 4-CHLORO-3-METHYLPHENOL  
100 4-CHLOROANILINE  
100 4-CHLOROPHENYL PHENYL ETHER  
100 4-NITROANILINE  
200 4-NITROPHENOL  
100 ACENAPHTHENE  
100 ACENAPHTHYLENE  
100 ANTHRACENE  
100 BENZO(A)ANTHRACENE  
100 BENZO(B AND/OR K)FLUORANTHENE

100 BENZO(GH)PERYLENE  
100 BENZO-A-PYRENE  
100 BENZYL BUTYL PHTHALATE  
100 BIS(2-CHLOROETHOXY) METHANE  
100 BIS(2-CHLOROETHYL) ETHER  
100 BIS(2-ETHYLHEXYL) PHTHALATE  
100 CARBAZOLE  
100 CHRYSENE  
100 DI-N-BUTYLPHTHALATE  
100 DI-N-OCTYLPHTHALATE  
100 DIBENZO(A,H)ANTHRACENE  
100 DIBENZOFURAN  
100 DIETHYL PHTHALATE  
100 DIMETHYL PHTHALATE  
100 FLUORANTHENE  
100 FLUORENE  
100 HEXACHLOROBENZENE (HCB)  
100 HEXACHLOROBUTADIENE  
100 HEXACHLOROCYCLOPENTADIENE (HCCP)  
100 HEXACHLOROETHANE  
100 INDENO (1,2,3-CD) PYRENE  
100 ISOPHORONE  
100 N-NITROSODI N-PROPYLAMINE  
100 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
100 NAPHTHALENE  
100 NITROBENZENE  
200 PENTACHLOROPHENOL  
100 PHENANTHRENE  
100 PHENOL  
100 PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/09/95

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 142 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S23-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1300 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
2.0	VINYL CHLORIDE	12U	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
50U	ACETONE	5.00	1,3-DICHLOROPROPANE
12U	CARBON DISULFIDE	12U	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
0.74AJ	TRANS-1,2-DICHLOROETHENE	5.2A	CHLOROBENZENE
9.8A	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
5.00	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
50U	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE(TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	0.72AJ	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYS      ANAGEMENT SYSTEM  
EPA-REGION IV      J, ATHENS, GA.

2/15/95

METALS DATA REPORT

PROJECT NO. 96-0002      SAMPLE NO. 199  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S24-001

SAMPLE TYPE: GROUNDWA

PROG ELEM: SSF      COLLECTED BY: F SLOAN  
CITY: PENSACOLA      ST: FL  
COLLECTION START. 10/25/95 1335      STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/L

5.0U	SILVER	61	CALCIUM
15U	ARSENIC	3.4	MAGNESIUM
NA	BORON	3.2	IRON
44	BARIUM	11	SODIUM
2.5U	BERYLLIUM	3.0	POTASSIUM
11	CADMIUM		
5.0U	COBALT		
5.0U	CHROMIUM		
5.0U	COPPER		
5.0U	MOLYBDENUM		
12	NICKEL		
2.5U	LEAD		
15U	ANTIMONY		
20U	SELENIUM		
12U	TIN		
220	STRONTIUM		
25U	TELLURIUM		
5.0U	TITANIUM		
50U	THALLIUM		
5.0U	VANADIUM		
5.0U	YTTRIUM		
26	ZINC		
NA	ZIRCONIUM		
0.2U	MERCURY		
55	ALUMINUM		
27	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 199 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA COLLECTION START: 10/25/95 1335 STOP: 00/00/00 \*\*\*  
\*\*\* STATION ID: 38-S24-001 \*\*\*

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS NAGEMENT SYSTEM  
EPA-REGION IV ESJ, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 199 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-S24-001 COLLECTION START: 10/25/95 1335 STOP: 00/00/00  
\*\*

UG/L ANALYTICAL RESULTS

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.50U	ALDRIN	2.0U	PCB-1232 (AROCOR 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCOR 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCOR 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCOR 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	1.0U	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE) /1	0.50U	ENDRIN KETONE
2.0U	PCB-1242 (AROCOR 1242)		
2.0U	PCB-1254 (AROCOR 1254)		
2.0U	PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 199 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-S24-001 COLLECTION START: 10/25/95 1335 STOP: 00/00/00  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

100 (3-AND/OR 4-)METHYLPHENOL  
100 1,2,4-TRICHLOROBENZENE  
100 2,2'-CHLOROISOPROPYLETHER  
100 2,3,4,6-TETRACHLOROPHENOL  
100 2,4,5-TRICHLOROPHENOL  
100 2,4,6-TRICHLOROPHENOL  
100 2,4-DICHLOROPHENOL  
100 2,4-DIMETHYLPHENOL  
200 2,4-DINITROPHENOL  
100 2,4-DINITROTOLUENE  
100 2,6-DINITROTOLUENE  
100 2-CHLORONAPHTHALENE  
100 2-CHLOROPHENOL  
200 2-METHYL-4,6-DINITROPHENOL  
100 2-METHYLNAPHTHALENE  
100 2-METHYLPHENOL  
100 2-NITROANILINE  
100 2-NITROPHENOL  
100 3,3'-DICHLOROBENZIDINE  
100 3-NITROANILINE  
100 4-BROMOPHENYL PHENYL ETHER  
100 4-CHLORO-3-METHYLPHENOL  
100 4-CHLOROANILINE  
100 4-CHLOROPHENYL PHENYL ETHER  
100 4-NITROANILINE  
200 4-NITROPHENOL  
100 ACENAPHTHENE  
100 ACENAPHTHYLENE  
100 ANTHRACENE  
100 BENZO(A)ANTHRACENE  
100 BENZO(B AND/OR K) FLUORANTHENE

100 BENZO(GHI)PERYLENE  
100 BENZO-A-PYRENE  
100 BENZYL BUTYL PHTHALATE  
100 BIS(2-CHLOROETHOXY) METHANE  
100 BIS(2-CHLOROETHYL) ETHER  
100 BIS(2-ETHYLHEXYL) PHTHALATE  
100 CARBAZOLE  
100 CHRYSENE  
100 DI-N-BUTYLPHTHALATE  
100 DI-N-OCTYLPHTHALATE  
100 DIBENZO(A,H)ANTHRACENE  
100 DIBENZOFURAN  
100 DIETHYL PHTHALATE  
100 DIMETHYL PHTHALATE  
100 FLUORANTHENE  
100 FLUORENE  
100 HEXACHLOROBENZENE (HCB)  
100 HEXACHLOROBUTADIENE  
100 HEXACHLOROCYCLOPENTADIENE (HCCP)  
100 HEXACHLOROETHANE  
100 INDENO(1,2,3-CD) PYRENE  
100 ISOPHORONE  
100 N-NITROSODI-N-PROPYLAMINE  
100 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
100 NAPHTHALENE  
100 NITROBENZENE  
200 PENTACHLOROPHENOL  
100 PHENANTHRENE  
100 PHENOL  
100 PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\*

PROJECT NO. 96-0002

STATION ID: 38-S24-001

\*\*\* \*\* \*\* \*\* \*\*

SAMPLE AND ANALYSIS

EPA-REGION IV B...

199

SAMPLE NO.

199

SAMPLE TYPE: GROUNDWA

10/25/95

1335

STOP: 00/00/00

\*\*\* \*\* \*\* \*\*\*

MANAGEMENT SYSTEM

ATHENS, GA.

COLLECTED BY: F SLOAN

ST: FL

10/09/95

\*\*\* \*\* \*\* \*\*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
1.00	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
500	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
1.4J	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
1.4J	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
3.6J	TRICHLOROETHENE(TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 200 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: P SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\* STATION ID: 38-S25-001 COLLECTION START: 10/25/95 1715 STOP: 00/00/00 \*\*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

MG/L

2.5U SILVER 28 CALCIUM  
7.5U ARSENIC 2.0 MAGNESIUM  
NA BORON 0.13 IRON  
58 BARIUM 13 SODIUM  
1.2U BERYLLIUM 1.2 POTASSIUM  
1.2U CADMIUM  
2.5U COBALT  
2.5U CHROMIUM  
8.2 COPPER  
2.5U MOLYBDENUM  
5.0U NICKEL  
10U LEAD  
7.5U ANTIMONY  
10U SELENIUM  
6.2U TIN  
92 STRONTIUM  
12U TELLURIUM  
2.6 TITANIUM  
25U THALLIUM  
2.5U VANADIUM  
2.5U YTTRIUM  
98 ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
230 ALUMINUM  
5.3 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 200 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL STOP: 00/00/00 \*\*  
\*\* STATION ID: 38-S25-001 COLLECTION START: 10/25/95 1715 \*\*  
\*\*\*

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 200 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
STATION ID: 38-S25-001 COLLECTION START: 10/25/95 1715 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

0.50U	ALDRIN	2.0U	PCB-1232 (AROCOR 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCOR 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCOR 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCOR 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLORPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	--	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE) /1	1.0U	ENDRIN KETONE
2.0U	PCB-1242 (AROCOR 1242)	0.50U	
2.0U	PCB-1254 (AROCOR 1254)		
2.0U	PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS NAGEMENT SYSTEM  
EPA-REGION IV B, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 200 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S25-001  
\*\*  
\*\*\*

PROG ELEM: SSP COLLECTED BY: P SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 1715 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

10U (3-AND/OR 4-) METHYLPHENOL  
10U 1,2,4-TRICHLOROBENZENE  
10U 2,2'-CHLOROISOPROPYLETHER  
10U 2,3,4,6-TETRACHLOROPHENOL  
10U 2,4,5-TRICHLOROPHENOL  
10U 2,4,6-TRICHLOROPHENOL  
10U 2,4-DICHLOROPHENOL  
10U 2,4-DIMETHYLPHENOL  
20U 2,4-DINITROPHENOL  
10U 2,4-DINITROTOLUENE  
10U 2,6-DINITROTOLUENE  
10U 2-CHLORONAPHTHALENE  
10U 2-CHLOROPHENOL  
20U 2-METHYL-4,6-DINITROPHENOL  
10U 2-METHYLNAPHTHALENE  
10U 2-METHYLPHENOL  
10U 2-NITROANILINE  
10U 2-NITROPHENOL  
10U 3,3'-DICHLOROBENZIDINE  
10U 3-NITROANILINE  
10U 4-BROMOPHENYL PHENYL ETHER  
10U 4-CHLORO-3-METHYLPHENOL  
10U 4-CHLOROANILINE  
10U 4-CHLOROPHENYL PHENYL ETHER  
10U 4-NITROANILINE  
20U 4-NITROPHENOL  
10U ACENAPHTHENE  
10U ACENAPHTHYLENE  
10U ANTHRACENE  
10U BENZO (A) ANTHRACENE  
10U BENZO (B AND/OR K) FLUORANTHENE

10U BENZO (GHI) PERYLENE  
10U BENZO-A-PYRENE  
10U BENZYL BUTYL PHTHALATE  
10U BIS (2-CHLORCETHOXY) METHANE  
10U BIS (2-CHLORCETHYL) ETHER  
10U BIS (2-ETHYLEXYL) PHTHALATE  
10U CARBAZOLE  
10U CHRYSENE  
10U DI-N-BUTYL PHTHALATE  
10U DI-N-OCTYL PHTHALATE  
10U DIBENZO (A, H) ANTHRACENE  
10U DIBENZOFURAN  
10U DIETHYL PHTHALATE  
10U DIMETHYL PHTHALATE  
10U FLUORANTHENE  
10U FLUORENE  
10U HEXACHLOROBENZENE (HCB)  
10U HEXACHLOROBUTADIENE  
10U HEXACHLOROCYCLOPENTADIENE (HCCP)  
10U HEXACHLOROETHANE  
10U INDENO (1,2,3-CD) PYRENE  
10U ISOPHORONE  
10U N-NITROSODI-N-PROPYLAMINE  
10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
10U NAPHTHALENE  
10U NITROBENZENE  
20U PENTACHLOROPHENOL  
10U PHENANTHRENE  
10U PHENOL  
10U PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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## 11/09/95

## 11/09/95

11/09/95

## ANALYTICAL RESULTS

## ANALYTICAL RESULTS

\*\*\*REMARKS\*\*\*

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS: IAGEMENT SYSTEM  
EPA-REGION IV E. ATHENS, GA.

,15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 201 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S26-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 1150 STOP: 00/00/00

ANALYTICAL RESULTS

MG/L

ANALYTICAL RESULTS

5.0U SILVER  
15U ARSENIC  
NA BORON  
69 BARIUM  
2.5U BERYLLIUM  
2.5U CADMIUM  
5.0U COBALT  
5.0U CHROMIUM  
5.0U COPPER  
5.0U MOLYBDENUM  
10U NICKEL  
2.5U LEAD  
15U ANTIMONY  
20U SELENIUM  
12U TIN  
180 STRONTIUM  
25U TELLURIUM  
5.0U TITANIUM  
50U THALLIUM  
5.0U VANADIUM  
5.0U YTTRIUM  
24 ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
62 ALUMINUM  
120 MANGANESE

49 CALCIUM  
21 MAGNESIUM  
0.23 IRON  
9.3 SODIUM  
2.3 POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 201 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA COLLECTION START: 10/25/95 1150 ST: FL STOP: 00/00/00 \*\*\*  
\*\*\* STATION ID: 38-S26-001 \*\*\*

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 201 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S26-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 0/25/95 1150 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

100 (3-AND/OR 4-) METHYLPHENOL  
100 1,2,4-TRICHLOROBENZENE  
100 2,2'-CHLOROISOPROPYLETHYER  
100 2,3,4,6-TETRACHLOROPHENOL  
100 2,4,5-TRICHLOROPHENOL  
100 2,4,6-TRICHLOROPHENOL  
100 2,4-DICHLOROPHENOL  
100 2,4-DIMETHYLPHENOL  
200 2,4-DINITROPHENOL  
100 2,4-DINITROTOLUENE  
100 2,6-DINITROTOLUENE  
100 2-CHLORONAPHTHALENE  
100 2-CHLOROPHENOL  
200 2-METHYL-4,6-DINITROPHENOL  
100 2-METHYLNAPHTHALENE  
100 2-METHYLPHENOL  
100 2-NITROANILINE  
100 2-NITROPHENOL  
100 3,3'-DICHLOROBENZIDINE  
100 3-NITROANILINE  
100 4-BROMOPHENYL PHENYL ETHER  
100 4-CHLORO-3-METHYLPHENOL  
100 4-CHLOROANILINE  
100 4-CHLOROPHENYL PHENYL ETHER  
100 4-NITROANILINE  
200 4-NITROPHENOL  
100 ACENAPHTHENE  
100 ACENAPHTHYLENE  
100 ANTHRACENE  
100 BENZO(A)ANTHRACENE  
100 BENZO(B AND/OR K)FLUORANTHENE

100 BENZO(GHI)PERYLENE  
100 BENZO-A-PYRENE  
100 BENZYL BUTYL PHTHALATE  
100 BIS(2-CHLOROETHOXY) METHANE  
100 BIS(2-CHLOROETHYL) ETHER  
100 BIS(2-ETHYLHEXYL) PHTHALATE  
100 CARBAZOLE  
100 CHRYSENE  
100 DI-N-BUTYLPHTHALATE  
100 DI-N-OCTYLPHTHALATE  
100 DIBENZO(A,H)ANTHRACENE  
100 DIBENZOFURAN  
100 DIETHYL PHTHALATE  
100 DIMETHYL PHTHALATE  
100 FLUORANTHENE  
100 FLUORENE  
100 HEXACHLOROBENZENE (HCB)  
100 HEXACHLOROBUTADIENE  
100 HEXACHLOROCYCLOPENTADIENE (HCCP)  
100 HEXACHLOROETHANE  
100 INDENO(1,2,3-CD) PYRENE  
100 ISOPHORONE  
100 N-NITROSODI-N-PROPYLAMINE  
100 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
100 NAPHTHALENE  
100 NITROBENZENE  
200 PENTACHLOROPHENOL  
100 PHENANTHRENE  
100 PHENOL  
100 PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS NAGEMENT SYSTEM  
EPA-REGION IV BSO, ATHENS, GA.

11/09/95

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 201 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
STATION ID: 38-S26-001 COLLECTION START: 10/25/95 1150 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
5.00	VINYL CHLORIDE	12U	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
50U	ACETONE	5.00	1,3-DICHLOROPROPANE
12U	CARBON DISULFIDE	12U	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
5.00	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
50U	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 202 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-S27-001 COLLECTION START: 10/25/95 1440 STOP: 00/00/00  
\*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/L

2.0U SILVER  
6.0U ARSENIC  
NA BORON  
49 BARIUM  
1.0U BERYLLIUM  
1.1 CADMIUM  
2.0U COBALT  
2.0U CHROMIUM  
2.0U COPPER  
2.0U MOLYBDENUM  
4.0U NICKEL  
8.0U LEAD  
8.0U ANTIMONY  
8.0U SELENIUM  
5.0U TIN  
62 STRONTIUM  
10U TELLURIUM  
2.5 TITANIUM  
20U THALLIUM  
3.5 VANADIUM  
2.0U YTTRIUM  
82 ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
250 ALUMINUM  
4.8 MANGANESE

23 CALCIUM  
3.8 MAGNESIUM  
0.24 IRON  
35 SODIUM  
1.8 POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

**SAMPLE AND ANALYSIS**      **AGEMENT SYSTEM**  
**EPA-REGION IV BSL,      ATHENS, GA.**

12/18/95

**SPECIFIED ANALYSIS DATA REPORT**

PROJECT NO. 96-0002    SAMPLE NO. 202    SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S27-001

PROG ELEM: SSF    COLLECTED BY: F SLOAN  
CITY: PENSACOLA    ST: FL  
COLLECTION START: 10/25/95    1440    STOP: 00/00/00

RESULTS	UNITS	PARAMETER
4.00	UG/L	CYANIDE

★ ★ ★ FOOTNOTES ★ ★ ★

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 202 SAMPLE TYPE: GROUNDWA  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: 38-S27-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/25/95 1440 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

0.50U ALDRIN	2.0U PCB-1232 (AROCIOR 1232)
0.50U HEPTACHLOR	2.0U PCB-1248 (AROCIOR 1248)
0.50U HEPTACHLOR EPOXIDE	2.0U PCB-1260 (AROCIOR 1260)
0.50U ALPHA-BHC	2.0U PCB-1016 (AROCIOR 1016)
0.50U BETA-BHC	20U TOXAPHENE
0.50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
0.50U DELTA-BHC	-- ALPHA-CHLORDENE /2
0.50U ENDOSULFAN I (ALPHA)	-- BETA CHLORDENE /2
0.50U DIELDRIN	-- GAMMA-CHLORDENE /2
0.50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
0.50U 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
0.50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
0.50U ENDRIN	-- CIS-NONACHLOR /2
0.50U ENDOSULFAN II (BETA)	-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U ENDOSULFAN SULFATE	1.0U METHOXYCHLOR
1.0U CHLORDANE (TECH. MIXTURE) /1	0.50U ENDRIN KETONE
2.0U PCB-1242 (AROCIOR 1242)	
2.0U PCB-1254 (AROCIOR 1254)	
2.0U PCB-1221 (AROCIOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ECU, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 202 SAMPLE TYPE: GROUNDWATER  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S27-001  
\*\*  
\*\*\* ANALYTICAL RESULTS

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA  
COLLECTION START: 10/25/95 1440 STOP: 00/00/00

\*\*\* UG/L ANALYTICAL RESULTS

(3-AND/OR 4-)METHYLPHENOL  
1,2,4-TRICHLOROBENZENE  
2,2'-CHLOROISOPROPYLETHYER  
2,3,4,6-TETRACHLOROPHENOL  
2,4,5-TRICHLOROPHENOL  
2,4,6-TRICHLOROPHENOL  
2,4-DICHLOROPHENOL  
2,4-DIMETHYLPHENOL  
2,4-DINITROPHENOL  
2,6-DINITROTOLUENE  
2,6-DINITROTOLUENE  
2-CHLORONAPHTHALENE  
2-CHLOROPHENOL  
2-METHYL-4,6-DINITROPHENOL  
2-METHYLNAPHTHALENE  
2-METHYLPHENOL  
2-NITROANILINE  
2-NITROPHENOL  
3,3'-DICHLOROBENZIDINE  
3-NITROANILINE  
4-BROMOPHENYL PHENYL ETHER  
4-CHLORO-3-METHYLPHENOL  
4-CHLOROANILINE  
4-CHLOROPHENYL PHENYL ETHER  
4-NITROANILINE  
4-NITROPHENOL  
ACENAPHTHENE  
ACENAPHTHYLENE  
ANTHRACENE  
BENZO (A) ANTHRACENE  
BENZO (B AND/OR K) FLUORANTHENE

BENZO (GHI) PERYLENE  
BENZO-A-PYRENE  
BENZYL BUTYL PHTHALATE  
BIS (2-CHLOROETHOXY) METHANE  
BIS (2-CHLOROETHYL) ETHER  
BIS (2-ETHYLHEXYL) PHTHALATE  
CARBAZOLE  
CHRYSENE  
DI-N-BUTYL PHTHALATE  
DI-N-OCTYL PHTHALATE  
DIBENZO (A,H) ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHYL PHTHALATE  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE (HCB)  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE (HCCP)  
HEXACHLOROETHANE  
INDENO (1,2 3-CD) PYRENE  
ISOPHORONE  
N-NITROSODI N-PROPYLAMINE  
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
NAPHTHALENE  
NITROBENZENE  
PENTACHLOROPHENOL  
PHENANTHRENE  
PHENOL  
PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

11/09/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 202 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: 38-S27-001 COLLECTION START: 10/25/95 1440 STOP: 00/00/00 \*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
5.0U	CHLOROMETHANE	5.0U	CIS-1,3-DICHLOROPROPENE
1.0U	VINYL CHLORIDE	12U	METHYL ISOBUTYL KETONE
5.0U	BROMOMETHANE	5.0U	TOLUENE
5.0U	CHLOROETHANE	5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	TRICHLOROFLUOROMETHANE	5.0U	1,1,2-TRICHLOROETHANE
5.0U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	0.96J	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
50U	ACETONE	5.0U	1,3-DICHLOROPROPANE
12U	CARBON DISULFIDE	12U	METHYL BUTYL KETONE
5.0U	METHYLENE CHLORIDE	5.0U	DIBROMOCHLOROMETHANE
5.0U	TRANS-1,2-DICHLOROETHENE	5.0U	CHLOROBENZENE
5.0U	1,1-DICHLOROETHANE	5.0U	1,1,1,2-TETRACHLOROETHANE
5.0U	CIS-1,2-DICHLOROETHENE	5.0U	ETHYL BENZENE
5.0U	2,2-DICHLOROPROPANE	5.0U	(M- AND/OR P-) XYLENE
50U	METHYL ETHYL KETONE	5.0U	O-XYLENE
5.0U	BROMOCHLOROMETHANE	5.0U	STYRENE
5.0U	CHLOROFORM	5.0U	BROMOFORM
5.0U	1,1,1-TRICHLOROETHANE	5.0U	BROMOBENZENE
5.0U	1,1-DICHLOROPROPENE	5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	CARBON TETRACHLORIDE	5.0U	1,2,3-TRICHLOROPROPANE
5.0U	1,2-DICHLOROETHANE	5.0U	O-CHLOROTOLUENE
5.0U	BENZENE	5.0U	P-CHLOROTOLUENE
5.0U	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.0U	1,3-DICHLOROBENZENE
5.0U	1,2-DICHLOROPROPANE	5.0U	1,4-DICHLOROBENZENE
5.0U	DIBROMOMETHANE	5.0U	1,2-DICHLOROBENZENE
5.0U	BROMODICHLOROMETHANE	5.0U	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSS, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 203 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: P SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-S28-001 COLLECTION START: 10/25/95 1445 STOP: 00/00/00  
\*\*

\*\*\* \*\* \*\* \*\* \* ANALYTICAL RESULTS ANALYTICAL RESULTS  
UG/L MG/L

2.0U	SILVER	16	CALCIUM
6.0U	ARSENIC	1.8	MAGNESIUM
NA	BORON	0.10	IRON
30	BARIUM	13	SODIUM
1.0U	BERYLLIUM	1.4	POTASSIUM
1.0U	CADMIUM		
2.0U	COBALT		
2.0U	CHROMIUM		
4.1	COPPER		
2.0U	MOLYBDENUM		
4.0U	NICKEL		
8.0U	LEAD		
8.0U	ANTIMONY		
8.0U	SELENIUM		
5.0U	TIN		
48	STRONTIUM		
10U	TELLURIUM		
2.2	TITANIUM		
20U	THALLIUM		
5.6	VANADIUM		
2.0U	YTTRIUM		
66	ZINC		
NA	ZIRCONIUM		
0.2U	MERCURY		
240	ALUMINUM		
7.8	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 203 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: P SLOAN \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: 38-S28-001 COLLECTION START: 10/25/95 1445 STOP: 00/00/00 \*\*  
\*\*\* \*\* \*\* \*\* \*\*

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PESTICIDES/PCB'S DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 203 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL STOP: 00/00/00  
\*\* STATION ID: 38-S28-001 COLLECTION START: 10/25/95 1445  
\*\*\*  
UG/L ANALYTICAL RESULTS ANALYTICAL RESULTS  
0.50U ALDRIN 2.0U PCB-1232 (AROCCLOR 1232)  
0.50U HEPTACHLOR 2.0U PCB-1248 (AROCCLOR 1248)  
0.50U HEPTACHLOR EPOXIDE 2.0U PCB-1260 (AROCCLOR 1260)  
0.50U ALPHA-BHC 2.0U PCB-1016 (AROCCLOR 1016)  
0.50U BETA-BHC 20U TOXAPHENE  
0.50U GAMMA-BHC (LINDANE) -- CHLORDENE /2  
0.50U DELTA-BHC -- ALPHA-CHLORDENE /2  
0.50U ENDOSULFAN I (ALPHA) -- BETA-CHLORDENE /2  
0.50U DIELDRIN -- GAMMA-CHLORDENE /2  
0.50U 4,4'-DDT (P,P'-DDT) -- GAMMA-CHLORDANE /2  
0.50U 4,4'-DDE (P,P'-DDE) -- TRANS-NONACHLOR /2  
0.50U 4,4'-DDD (P,P'-DDD) -- ALPHA-CHLORDANE /2  
0.50U ENDRIN -- CIS-NONACHLOR /2  
0.50U ENDOSULFAN II (BETA) -- OXYCHLORDANE (OCTACHLOREPOXIDE) /2  
0.50U ENDOSULFAN SULFATE 1.0U METHOXYCHLOR  
1.0U CHLORDANE (TECH. MIXTURE) /1 0.50U ENDRIN KETONE  
2.0U PCB-1242 (AROCCLOR 1242)  
2.0U PCB-1254 (AROCCLOR 1254)  
2.0U PCB-1221 (AROCCLOR 1221)

11/17/95  
SAMPLE AND ANALYSIS AGEMENT SYSTEM  
EPA-REGION IV ESL, ATHENS, GA.  
\*\*\* \*\* \*\* \*\* \*\* \*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 203 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S28-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 1445 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

100 (3-AND/OR 4-) METHYLPHENOL  
100 1,2,4-TRICHLOROBENZENE  
100 2,2'-CHLOROISOPROPYLETHER  
100 2,3,4,6-TETRACHLOROPHENOL  
100 2,4,5-TRICHLOROPHENOL  
100 2,4,6-TRICHLOROPHENOL  
100 2,4-DICHLOROPHENOL  
100 2,4-DIMETHYLPHENOL  
200 2,4-DINITROPHENOL  
100 2,4-DINITROTOLUENE  
100 2,6-DINITROTOLUENE  
100 2-CHLORONAPHTHALENE  
100 2-CHLOROPHENOL  
200 2-METHYL-4,6-DINITROPHENOL  
100 2-METHYLNAPHTHALENE  
100 2-METHYLPHENOL  
100 2-NITROANILINE  
100 2-NITROPHENOL  
100 3,3'-DICHLOROBENZIDINE  
100 3-NITROANILINE  
100 4-BROMOPHENYL PHENYL ETHER  
100 4-CHLORO-3-METHYLPHENOL  
100 4-CHLOROANILINE  
100 4-CHLOROPHENYL PHENYL ETHER  
100 4-NITROANILINE  
200 4-NITROPHENOL  
100 ACENAPHTHENE  
100 ACENAPHTHYLENE  
100 ANTHRACENE  
100 BENZO(A)ANTHRACENE  
100 BENZO(B AND/OR K)FLUORANTHENE

100 BENZO(GHI)PERYLENE  
100 BENZO-A-PYRENE  
100 BENZYL BUTYL PHTHALATE  
100 BIS(2-CHLOROETHOXY) METHANE  
100 BIS(2-CHLOROETHYL) ETHER  
100 BIS(2-ETHYLHEXYL) PHTHALATE  
100 CARBAZOLE  
100 CHRYSENE  
100 DI-N-BUTYLPHTHALATE  
100 DI-N-OCTYLPHTPALATE  
100 DIBENZO(A,H)ANTHRACENE  
100 DIBENZOFURAN  
100 DIETHYL PHTHALATE  
100 DIMETHYL PHTHALATE  
100 FLUORANTHENE  
100 FLUORENE  
100 HEXACHLOROBENZENE (HCB)  
100 HEXACHLOROBUTADIENE  
100 HEXACHLOROCYCLOPENTADIENE (HCCP)  
100 HEXACHLOROETHANE  
100 INDENO (1,2,3-CD) PYRENE  
100 ISOPHORONE  
100 N-NITROSODI-N-PROPYLAMINE  
100 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
100 NAPHTHALENE  
100 NITROBENZENE  
200 PENTACHLOROPHENOL  
100 PHENANTHRENE  
100 PHENOL  
100 PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS NAGEMENT SYSTEM  
EPA-REGION IV L , ATHENS, GA.

/09/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 203 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S28-001  
\*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 1445 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

5.0U	CHLOROMETHANE	5.0U	CIS-1,3-DICHLOROPROPENE
1.0U	VINYL CHLORIDE	12U	METHYL ISOBUTYL KETONE
5.0U	BROMOMETHANE	5.0U	TOLUENE
5.0U	CHLOROETHANE	5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	TRICHLOROFLUOROMETHANE	5.0U	1,1,2-TRICHLOROETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
50U	ACETONE	5.0U	1,3-DICHLOROPROPANE
12U	CARBON DISULFIDE	12U	METHYL BUTYL KETONE
5.0U	METHYLENE CHLORIDE	5.0U	DIBROMOCHLOROMETHANE
5.0U	TRANS-1,2-DICHLOROETHENE	5.0U	CHLOROBENZENE
5.0U	1,1-DICHLOROETHANE	5.0U	1,1,1,2-TETRACHLOROETHANE
5.0U	CIS-1,2-DICHLOROETHENE	5.0U	ETHYL BENZENE
5.0U	2,2-DICHLOROPROPANE	5.0U	(M- AND/OR P-)XYLENE
50U	METHYL ETHYL KETONE	5.0U	O-XYLENE
5.0U	BROMOCHLOROMETHANE	5.0U	STYRENE
1.2J	CHLOROFORM	5.0U	BROMOFORM
5.0U	1,1,1-TRICHLOROETHANE	5.0U	BROMOBENZENE
5.0U	1,1-DICHLOROPROPENE	5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	CARBON TETRACHLORIDE	5.0U	1,2,3-TRICHLOROPROPANE
5.0U	1,2-DICHLOROETHANE	5.0U	O-CHLOROTOLUENE
5.0U	BENZENE	5.0U	P-CHLOROTOLUENE
5.0U	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.0U	1,3-DICHLOROBENZENE
5.0U	1,2-DICHLOROPROPANE	5.0U	1,4-DICHLOROBENZENE
5.0U	DIBROMOMETHANE	5.0U	1,2-DICHLOROBENZENE
5.0U	BROMODICHLOROMETHANE	5.0U	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 204 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
STATION ID: 38-S29-001 COLLECTION START: 10/25/95 1045 STOP: 00/00/00

ANALYTICAL RESULTS

MG/L

ANALYTICAL RESULTS

2.0U	SILVER	27	CALCIUM
12	ARSENIC	2.8	MAGNESIUM
NA	BORON	0.61	IRON
61	BARIUM	11	SODIUM
1.0U	BERYLLIUM	5.6	POTASSIUM
1.7	CADMIUM		
2.0U	COBALT		
7.6	CHROMIUM		
26	COPPER		
2.3	MOLYBDENUM		
4.3	NICKEL		
8.0U	LEAD		
8.0U	ANTIMONY		
8.0U	SELENIUM		
5.0U	TIN		
140	STRONTIUM		
10U	TELLURIUM		
2.0U	TITANIUM		
20U	THALLIUM		
2.0U	VANADIUM		
2.0U	YTTRIUM		
19	ZINC		
NA	ZIRCONIUM		
0.2U	MERCURY		
190	ALUMINUM		
130	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS NAGEMENT SYSTEM  
EPA-REGION IV Bsu, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 204 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-S29-001 COLLECTION START: 10/25/95 1045 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS UNITS PARAMETER  
17A UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 204 SAMPLE TYPE: GROUNDWA PROG ELEM: SSP COLLECTED BY: P SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: 38-S29-001 COLLECTION START: 10/25/95 1045 STOP: 00/00/00 \*\*\*

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

0.50U ALDRIN	2.0U PCB-1232 (AROCOR 1232)
0.50U HEPTACHLOR	2.0U PCB-1248 (AROCOR 1248)
0.50U HEPTACHLOR EPOXIDE	2.0U PCB-1260 (AROCOR 1260)
0.50U ALPHA-BHC	2.0U PCB-1016 (AROCOR 1016)
0.50U BETA-BHC	20U TOXAPHENE
0.50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
0.50U DELTA-BHC	-- ALPHA-CHLORDENE /2
0.50U ENDOSULFAN I (ALPHA)	-- BETA CHLORDENE /2
0.50U DIELDRIN	-- GAMMA-CHLORDENE /2
0.50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
0.50U 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
0.50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
0.50U ENDRIN	-- CIS-NONACHLOR /2
0.50U ENDOSULFAN II (BETA)	-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U ENDOSULFAN SULFATE	1.0U METHOXYCHLOR
1.0U CHLORDANE (TECH. MIXTURE) /1	0.50U ENDRIN KETONE
2.0U PCB-1242 (AROCOR 1242)	
2.0U PCB-1254 (AROCOR 1254)	
2.0U PCB-1221 (AROCOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSO, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 204 SAMPLE TYPE: GROUNDWATER  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S29-001  
PROG ELEM: SSP COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 1045 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

UG/L

10U	(3-AND/OR 4-)METHYLPHENOL	10U	BENZO(GHI)PERYLENE
10U	1,2,4-TRICHLOROBENZENE	10U	BENZO-A-PYRENE
10U	2,2'-CHLOROISOPROPYLETHYER	10U	BENZYL BUTYL PHTHALATE
10U	2,3,4,6-TETRACHLOROPHENOL	10U	BIS(2-CHLORCETOXY) METHANE
10U	2,4,5-TRICHLOROPHENOL	10U	BIS(2-CHLORCETHYL) ETHER
10U	2,4,6-TRICHLOROPHENOL	10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	2,4-DICHLOROPHENOL	10U	CARBAZOLE
10U	2,4-DIMETHYLPHENOL	10U	CHRYSENE
20U	2,4-DINITROPHENOL	10U	DI-N-BUTYLPHTHALATE
10U	2,4-DINITROTOLUENE	10U	DI-N-OCTYLPHTHALATE
10U	2,6-DINITROTOLUENE	10U	DIBENZO(A,H)ANTHRACENE
10U	2-CHLORONAPHTHALENE	10U	DIBENZOFURAN
10U	2-CHLOROPHENOL	10U	DIETHYL PHTHALATE
20U	2-METHYL-4,6-DINITROPHENOL	10U	DIMETHYL PHTHALATE
10U	2-METHYLNAPHTHALENE	10U	FLUORANTHENE
10U	2-METHYLPHENOL	10U	FLUORENE
10U	2-NITROANILINE	10U	HEXACHLOROBENZENE (HCB)
10U	2-NITROPHENOL	10U	HEXACHLOROBUTADIENE
10U	3,3'-DICHLOROBENZIDINE	10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	3-NITROANILINE	10U	HEXACHLOROETHANE
10U	4-BROMOPHENYL PHENYL ETHER	10U	INDENO (1,2,3-CD) PYRENE
10U	4-CHLORO-3-METHYLPHENOL	10U	ISOPHORONE
10U	4-CHLOROANILINE	10U	N-NITROSODI-N-PROPYLAMINE
10U	4-CHLOROPHENYL PHENYL ETHER	10U	N-NITROSODI-N-PROPYLAMINE/DIPHENYLAMINE
10U	4-NITROANILINE	10U	NAPHTHALENE
20U	4-NITROPHENOL	10U	NITROBENZENE
10U	ACENAPHTHENE	20U	PENTACHLOROPHENOL
10U	ACENAPHTHYLENE	10U	PHENANTHRENE
10U	ANTHRACENE	10U	PHENOL
10U	BENZO(A)ANTHRACENE	10U	PYRENE
10U	BENZO(B AND/OR K)FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/09/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 204 SAMPLE TYPE: GROUNDWATER  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: 38-S29-001  
\*\*\* COLLECTION START: 10/25/95 1045 STOP: 00/00/00  
\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA  
ST: FL

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

5.0U CHLOROMETHANE  
43 VINYL CHLORIDE  
5.0U BROMOMETHANE  
5.0U CHLOROETHANE  
5.0U TRICHLOROFLUOROMETHANE  
5.0U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
50U ACETONE  
12U CARBON DISULFIDE  
5.0U METHYLENE CHLORIDE  
9.3A TRANS-1,2-DICHLOROETHENE  
5.0U 1,1-DICHLOROETHANE  
28A CIS-1,2-DICHLOROETHENE  
5.0U 2,2-DICHLOROPROPANE  
50U METHYL ETHYL KETONE  
5.0U BROMOCHLOROMETHANE  
5.0U CHLOROFORM  
5.0U 1,1,1-TRICHLOROETHANE  
5.0U 1,1-DICHLOROPROPENE  
5.0U CARBON TETRACHLORIDE  
5.0U 1,2-DICHLOROETHANE  
5.0U BENZENE  
4.0AJ TRICHLOROETHENE (TRICHLOROETHYLENE)  
5.0U 1,2-DICHLOROPROPANE  
5.0U DIBROMOMETHANE  
5.0U BROMODICHLOROMETHANE

5.0U CIS-1,3-DICHLOROPROPENE  
12U METHYL ISOBUTYL KETONE  
5.0U TOLUENE  
5.0U TRANS-1,3-DICHLOROPROPENE  
5.0U 1,1,2-TRICHLOROETHANE  
0.99AJ TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
5.0U 1,3-DICHLOROPROPANE  
12U METHYL BUTYL KETONE  
5.0U DIBROMOCHLOROMETHANE  
5.0U CHLOROBENZENE  
5.0U 1,1,1,2-TETRACHLOROETHANE  
5.0U ETHYL BENZENE  
5.0U (M- AND/OR P-) XYLENE  
5.0U O-XYLENE  
5.0U STYRENE  
5.0U BROMOFORM  
5.0U BROMOBENZENE  
5.0U 1,1,2,2-TETRACHLOROETHANE  
5.0U 1,2,3-TRICHLOROPROPANE  
5.0U O-CHLOROTOLUENE  
5.0U P-CHLOROTOLUENE  
5.0U 1,3-DICHLOROBENZENE  
5.0U 1,4-DICHLOROBENZENE  
5.0U 1,2-DICHLOROBENZENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS EPA-REGION IV ES1 GEMENT SYSTEM ATHENS, GA. 1. 5/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 205 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN

SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL

STATION ID: 38-S30-001 COLLECTION START: 10/25/95 1615 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L

2.00 SILVER 13

17 ARSENIC 1.1

NA BORON 0.38

36 BARIUM 14

1.00 BERYLLIUM 0.89

1.00 CADMIUM

3.2 COBALT

2.00 CHROMIUM

3.7 COPPER

2.00 MOLYBDENUM

4.0 NICKEL

8.00 LEAD

8.00 ANTIMONY

8.00 SELENIUM

5.00 TIN

59 STRONTIUM

100 TELLURIUM

2.4 TITANIUM

200 THALLIUM

2.00 VANADIUM

2.00 YTTRIUM

43 ZINC

NA ZIRCONIUM

0.20 MERCURY

280 ALUMINUM

5.9 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*NAI-INTERFERENCES

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 205 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: 38-S30-001 COLLECTION START: 10/25/95 1615 STOP: 00/00/00 \*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS UNITS PARAMETER  
4.00 UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS  
EPA-REGION IV E.

AGEMENT SYSTEM  
ATHENS, GA.

17/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 205

SOURCE: NAS PENSACOLA

STATION ID: 38-S30-001

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

COLLECTION START: 10/25/95 1615 STOP: 00/00/00

UG/L

ANALYTICAL RESULTS

0.50U	ALDRIN	2.0U	PCB-1232 (AROCLO 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCLO 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCLO 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCLO 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLORPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	1.0U	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE)	0.50U	ENDRIN KETONE
2.0U	PCB-1242 (AROCLO 1242)		
2.0U	PCB-1254 (AROCLO 1254)		
2.0U	PCB-1221 (AROCLO 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

\*NA-NOT ANALYZED

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

C-CONFIRMED BY GC/MS

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 205 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* \*\* \*\* \*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* \*\* \*\* \*\* STATION ID: 38-S30-001 COLLECTION START: 10/25/95 1615 STOP: 00/00/00  
\*\* \*\* \*\* \*\*

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

100 (3-AND/OR 4-) METHYLPHENOL  
100 1,2,4-TRICHLOROBENZENE  
100 2,2'-CHLOROISOPROPYLETHER  
100 2,3,4,6-TETRACHLOROPHENOL  
100 2,4,5-TRICHLOROPHENOL  
100 2,4,6-TRICHLOROPHENOL  
100 2,4-DICHLOROPHENOL  
100 2,4-DIMETHYLPHENOL  
200 2,4-DINITROPHENOL  
100 2,4-DINITROTOLUENE  
100 2,6-DINITROTOLUENE  
100 2-CHLORONAPHTHALENE  
100 2-CHLOROPHENOL  
200 2-METHYL-4,6-DINITROPHENOL  
100 2-METHYLNAPHTHALENE  
100 2-METHYLPHENOL  
100 2-NITROANILINE  
100 2-NITROPHENOL  
100 3,3'-DICHLOROBENZIDINE  
100 3-NITROANILINE  
100 4-BROMOPHENYL PHENYL ETHER  
100 4-CHLORO-3-METHYLPHENOL  
100 4-CHLOROANILINE  
100 4-CHLOROPHENYL PHENYL ETHER  
100 4-NITROANILINE  
200 4-NITROPHENOL  
100 ACENAPHTHENE  
100 ACENAPHTHYLENE  
100 ANTHRACENE  
100 BENZO(A) ANTHRACENE  
100 BENZO(B AND/OR K) FLUORANTHENE

BENZO(GHI) PERYLENE  
BENZO-A-PYRENE  
BENZYL BUTYL PHTHALATE  
BIS(2-CHLOROETHOXY) METHANE  
BIS(2-CHLOROETHYL) ETHER  
BIS(2-ETHYLHEXYL) PHTHALATE  
CARBAZOLE  
CHRYSENE  
DI-N-BUTYLPHTHALATE  
DI-N-OCTYLPHTHALATE  
DIBENZO(A,H) ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHYL PHTHALATE  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE (HCB)  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE (HCCP)  
HEXACHLOROETHANE  
INDENO (1,2,3-CD) PYRENE  
ISOPHORONE  
N-NITROSODI-N-PROPYLAMINE  
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
NAPHTHALENE  
NITROBENZENE  
PENTACHLOROPHENOL  
PHENANTHRENE  
PHENOL  
PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96 0002 SAMPLE NO. 205  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S30-001  
\*\*  
\*\*\*  
SAMPLE AND ANALYSIS  
EPA REGION IV  
NAGEMENT SYSTEM  
ATHENS, GA.  
10/09/95

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 1615 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
1.00	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	1.5AJ	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
500	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
0.59AJ	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 206 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S31-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA  
COLLECTION START: 10/25/95 1610 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/L

14 CALCIUM  
0.91 MAGNESIUM  
0.18 IRON  
6.4 SODIUM  
1.00 POTASSIUM

5.00 SILVER  
150 ARSENIC  
NA BORON  
63 BARIUM  
2.50 BERYLLIUM  
2.50 CADMIUM  
5.00 COBALT  
5.00 CHROMIUM  
5.00 COPPER  
5.00 MOLYBDENUM  
100 NICKEL  
2.50 LEAD  
150 ANTIMONY  
200 SELENIUM  
120 TIN  
84 STRONTIUM  
250 TELLURIUM  
5.00 TITANIUM  
500 THALLIUM  
5.00 VANADIUM  
5.00 YTTRIUM  
320 ZINC  
NA ZIRCONIUM  
0.20 MERCURY  
320 ALUMINUM  
5.00 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS  
EPA-REGION IV ES  
ATHENS, GA.

11/18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S31-001

206  
SAMPLE TYPE: GROUNDWA  
PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/25/95  
COLLECTED BY: F SLOAN  
ST: FL  
STOP: 00/00/00

RESULTS UNITS PARAMETER  
4.00 UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 206 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
STATION ID: 38-S31-001 COLLECTION START: 10/25/95 1610 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

0.50U	ALDRIN	2.0U	PCB-1232 (AROCLO 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCLO 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCLO 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCLO 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLORPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	1.0U	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE)	0.50U	ENDRIN KETONE
2.0U	PCB-1242 (AROCLO 1242)		
2.0U	PCB-1254 (AROCLO 1254)		
2.0U	PCB-1221 (AROCLO 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS  
EPA-REGION IV ES

AGEMENT SYSTEM  
ATHENS, GA.

6/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\*

PROJECT NO. 96-0002 SAMPLE NO. 206

SOURCE: NAS PENSACOLA

STATION ID: 38-S31-001

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

COLLECTION START: 10/25/95 1610 STOP: 00/00/00

UG/L

ANALYTICAL RESULTS

ANALYTICAL RESULTS

100	(3-AND/OR 4-)METHYLPHENOL	100	BENZO(GHI)PERYLENE
100	1,2,4-TRICHLOROBENZENE	100	BENZO-A-PYRENE
100	2,2'-CHLOROISOPROPYLETHET	100	BENZYL BUTYL PHTHALATE
100	2,3,4,6-TETRACHLOROPHENOL	100	BIS(2-CHLOROETHOXY) METHANE
100	2,4,5-TRICHLOROPHENOL	100	BIS(2-CHLOROETHYL) ETHER
100	2,4,6-TRICHLOROPHENOL	100	BIS(2-ETHYLHEXYL) PHTHALATE
100	2,4-DICHLOROPHENOL	100	CARBAZOLE
100	2,4-DIMETHYLPHENOL	100	CHRYSENE
200	2,4-DINITROPHENOL	100	DI-N-BUTYLPHTHALATE
100	2,4-DINITROTOLUENE	100	DI-N-OCTYLPHTHALATE
100	2,6-DINITROTOLUENE	100	DIBENZO(A,H)ANTHRACENE
100	2-CHLORONAPHTHALENE	100	DIBENZOFURAN
100	2-CHLOROPHENOL	100	DIETHYL PHTHALATE
200	2-METHYL-4,6-DINITROPHENOL	100	DIMETHYL PHTHALATE
100	2-METHYLNAPHTHALENE	100	FLUORANTHENE
100	2-METHYLPHENOL	100	FLUORENE
100	2-NITROANILINE	100	HEXACHLOROBENZENE (HCB)
100	2-NITROPHENOL	100	HEXACHLOROBUTADIENE
100	3,3'-DICHLOROBENZIDINE	100	HEXACHLOROCYCLOPENTADIENE (HCCP)
100	3-NITROANILINE	100	HEXACHLOROETHANE
100	4-BROMOPHENYL PHENYL ETHER	100	INDENO (1,2,3-CD) PYRENE
100	4-CHLORO-3-METHYLPHENOL	100	ISOPHORONE
100	4-CHLOROANILINE	100	N-NITROSODI-N-PROPYLAMINE
100	4-CHLOROPHENYL PHENYL ETHER	100	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100	4-NITROANILINE	100	NAPHTHALENE
200	4-NITROPHENOL	100	NITROBENZENE
100	ACENAPHTHENE	200	PENTACHLOROPHENOL
100	ACENAPHTHYLENE	100	PHENANTHRENE
100	ANTHRACENE	100	PHENOL
100	BENZO(A)ANTHRACENE	100	PYRENE
100	BENZO(B AND/OR K)FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS EPA-REGION IV E ATHENS, GA. AGEEMENT SYSTEM .5/95  
METALS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 207 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S32-001  
COLLECTION START: 10/25/95 1715 STOP: 00/00/00  
ST: FL  
ANALYTICAL RESULTS

UG/L	MG/L	ANALYTICAL RESULTS
4.0U SILVER	43	CALCIUM
8.4 ARSENIC	3.5	MAGNESIUM
NA BORON	0.035	IRON
60 BARIUM	7.0	SODIUM
2.0U BERYLLIUM	2.8	POTASSIUM
2.0U CADMIUM		
4.0U COBALT		
4.0U CHROMIUM		
4.0U COPPER		
4.0U MOLYBDENUM		
8.0U NICKEL		
8.0U LEAD		
16U ANTIMONY		
16U SELENIUM		
10U TIN		
140 STRONTIUM		
20U TELLURIUM		
4.0U TITANIUM		
40U THALLIUM		
6.5 VANADIUM		
4.0U YTTRIUM		
36 ZINC		
NA ZIRCONIUM		
0.2U MERCURY		
74 ALUMINUM		
26 MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 207 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL STOP: 00/00/00 \*\*  
\*\* STATION ID: 38-S32-001 COLLECTION START: 10/25/95 1715 \*\*  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS  
EPA REGION IV E.

AGEMENT SYSTEM  
ATHENS, GA.

17/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 207

SOURCE: NAS PENSACOLA

STATION ID: 38 S32-001

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

COLLECTION START: 10/25/95 1715 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
0.50U	ALDRIN	2.0U	PCB-1232 (AROCLO 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCLO 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCLO 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCLO 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	-	CHLORDENE /2
0.50U	DELTA-BHC	-	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	-	BETA CHLORDENE /2
0.50U	DIELDRIN	-	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	-	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	-	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	-	ALPHA-CHLORDANE /2
0.50U	ENDRIN	-	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	-	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	-	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE) /1	1.0U	ENDRIN KETONE
2.0U	PCB-1242 (AROCLO 1242)	0.50U	
2.0U	PCB-1254 (AROCLO 1254)		
2.0U	PCB-1221 (AROCLO 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 207 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
STATION ID: 38-S32-001 COLLECTION START: 10/25/95 1715 STOP: 00/00/00

UG/L ANALYTICAL RESULTS ANALYTICAL RESULTS

100	(3-AND/OR 4-) METHYLPHENOL	100	BENZO (GHI) PERYLENE
100	1,2,4-TRICHLOROBENZENE	100	BENZO-A-PYRENE
100	2,2'-CHLOROISOPROPYLETHER	100	BENZYL BUTYL PHTHALATE
100	2,3,4,6-TETRACHLOROPHENOL	100	BIS (2-CHLOROETHOXY) METHANE
100	2,4,5-TRICHLOROPHENOL	100	BIS (2-CHLOROETHYL) ETHER
100	2,4,6-TRICHLOROPHENOL	22	BIS (2-ETHYLHEXYL) PHTHALATE
100	2,4-DICHLOROPHENOL	100	CARBAZOLE
100	2,4-DIMETHYLPHENOL	100	CHRYSENE
200	2,4-DINITROPHENOL	100	DI-N-BUTYLPHTHALATE
100	2,4-DINITROTOLUENE	100	DI-N-OCTYLPHTHALATE
100	2,6-DINITROTOLUENE	100	DIBENZO (A,H) ANTHRACENE
100	2-CHLORONAPHTHALENE	100	DIBENZOFURAN
100	2-CHLOROPHENOL	100	DIETHYL PHTHALATE
200	2-METHYL-4,6-DINITROPHENOL	100	DIMETHYL PHTHALATE
100	2-METHYLNAPHTHALENE	100	FLUORANTHENE
100	2-METHYLPHENOL	100	FLUORENE
100	2-NITROANILINE	100	HEXACHLOROBENZENE (HCB)
100	2-NITROPHENOL	100	HEXACHLOROBUTADIENE
100	3,3'-DICHLOROBENZIDINE	100	HEXACHLOROCYCLOPENTADIENE (HCCP)
100	3-NITROANILINE	100	HEXACHLOROETHANE
100	4-BROMOPHENYL PHENYL ETHER	100	INDENO (1,2,3-CD) PYRENE
100	4-CHLORO-3-METHYLPHENOL	100	ISOPHORONE
100	4-CHLOROANILINE	100	N-NITROSODI-N-PROPYLAMINE
100	4-CHLOROPHENYL PHENYL ETHER	100	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100	4-NITROANILINE	100	NAPHTHALENE
200	4-NITROPHENOL	100	NITROBENZENE
100	ACENAPHTHENE	200	PENTACHLOROPHENOL
100	ACENAPHTHYLENE	100	PHENANTHRENE
100	ANTHRACENE	100	PHENOL
100	BENZO (A) ANTHRACENE	100	PYRENE
100	BENZO (B AND/OR K) FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



\*\*\*

PROJECT NO: 96 0002

SOURCE: NAS PENSACOLA

STATION ID: 38-S32-001

PROG ELEM: SSF

CITY: PENSACOLA

COLLECTION START: 10/25/95

STOP: 00/00/00

ST: FL

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ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
750	CHLOROMETHANE	750	CIS-1,3-DICHLOROPROPENE
130	VINYL CHLORIDE	1900	METHYL ISOBUTYL KETONE
750	BROMOMETHANE	750	TOLUENE
750	CHLOROETHANE	750	TRANS-1,3-DICHLOROPROPENE
750	TRICHLOROFLUOROMETHANE	750	1,1,2-TRICHLOROETHANE
750	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	820	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
7500	ACETONE	750	1,3-DICHLOROPROPANE
1900	CARBON DISULFIDE	1900	METHYL BUTYL KETONE
750	METHYLENE CHLORIDE	750	DIBROMOCHLOROMETHANE
43J	TRANS-1,2-DICHLOROETHENE	750	CHLOROBENZENE
750	1,1-DICHLOROETHANE	750	1,1,1,2-TETRACHLOROETHANE
640	CIS-1,2-DICHLOROETHENE	750	ETHYL BENZENE
750	2,2-DICHLOROPROPANE	750	(M- AND/OR P ) XYLENE
7500	METHYL ETHYL KETONE	750	O-XYLENE
750	BROMOCHLOROMETHANE	750	STYRENE
750	CHLOROFORM	750	BROMOFORM
750	1,1,1-TRICHLOROETHANE	750	BROMOBENZENE
750	1,1-DICHLOROPROPENE	750	1,1,2,2-TETRACHLOROETHANE
750	CARBON TETRACHLORIDE	750	1,2,3-TRICHLOROPROPANE
750	1,2-DICHLOROETHANE	750	O-CHLOROTOLUENE
750	BENZENE	750	P-CHLOROTOLUENE
340	TRICHLOROETHENE (TRICHLOROETHYLENE)	750	1,3-DICHLOROBENZENE
750	1,2-DICHLOROPROPANE	750	1,4-DICHLOROBENZENE
750	DIBROMOMETHANE	750	1,2-DICHLOROBENZENE
750	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 194 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\* STATION ID: 18-S02-001 COLLECTION START: 10/24/95 1720 STOP: 00/00/00 \*\*\*

\*\*\* UG/L ANALYTICAL RESULTS MG/L ANALYTICAL RESULTS \*\*\*

5.0U	SILVER	35	CALCIUM
15U	ARSENIC	2.6	MAGNESIUM
NA	BORON	0.44	IRON
75	BARIUM	10	SODIUM
2.5U	BERYLLIUM	2.0	POTASSIUM
2.5U	CADMIUM		
5.0U	COBALT		
5.0U	CHROMIUM		
5.0U	COPPER		
5.0U	MOLYBDENUM		
10U	NICKEL		
2.5U	LEAD		
15U	ANTIMONY		
20U	SELENIUM		
12U	TIN		
100	STRONTIUM		
25U	TELLURIUM		
5.0U	TITANIUM		
50U	THALLIUM		
5.0U	VANADIUM		
5.0U	YTTRIUM		
14	ZINC		
NA	ZIRCONIUM		
0.2U	MERCURY		
57	ALUMINUM		
180	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 194 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\*\* STATION ID: 18-S02-001 COLLECTION START: 10/24/95 1720 STOP: 00/00/00 \*\*\*

UG/L ANALYTICAL RESULTS

0.50U ALDRIN  
0.50U HEPTACHLOR  
0.50U HEPTACHLOR EPOXIDE  
0.50U ALPHA-BHC  
0.50U BETA-BHC  
0.50U GAMMA-BHC (LINDANE)  
0.50U DELTA-BHC  
0.50U ENDOSULFAN I (ALPHA)  
0.50U DIELDRIN  
0.50U 4,4'-DDT (P,P'-DDT)  
0.50U 4,4'-DDE (P,P'-DDE)  
0.50U 4,4'-DDD (P,P'-DDD)  
0.50U ENDRIN  
0.50U ENDOSULFAN II (BETA)  
0.50U ENDOSULFAN SULFATE  
0.50U CHLORDANE (TECH. MIXTURE) /1  
1.0U PCB-1242 (AROCOR 1242)  
2.0U PCB-1254 (AROCOR 1254)  
2.0U PCB-1221 (AROCOR 1221)

UG/L ANALYTICAL RESULTS

2.0U PCB-1232 (AROCOR 1232)  
2.0U PCB-1248 (AROCOR 1248)  
2.0U PCB-1260 (AROCOR 1260)  
2.0U PCB-1016 (AROCOR 1016)  
20U TOXAPHENE  
-- CHLORDANE /2  
-- ALPHA-CHLORDENE /2  
-- BETA-CHLORDENE /2  
-- GAMMA-CHLORDENE /2  
-- TRANS-NONACHLOR /2  
-- ALPHA-CHLORDANE /2  
-- CIS-NONACHLOR /2  
-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2  
1.0U METHOXYCHLOR  
0.50U ENDRIN KETONE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 194 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 18-S02-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1720 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

100 (3-AND/OR 4-) METHYLPHENOL  
100 1,2,4-TRICHLOROBENZENE  
100 2,2'-CHLOROISOPROPYLETHER  
100 2,3,4,6-TETRACHLOROPHENOL  
100 2,4,5-TRICHLOROPHENOL  
100 2,4,6-TRICHLOROPHENOL  
100 2,4-DICHLOROPHENOL  
100 2,4-DIMETHYLPHENOL  
200 2,4-DINITROPHENOL  
100 2,4-DINITROTOLUENE  
100 2,6-DINITROTOLUENE  
100 2-CHLORONAPHTHALENE  
100 2-CHLOROPHENOL  
200 2-METHYL-4,6-DINITROPHENOL  
100 2-METHYLNAPHTHALENE  
100 2-METHYLPHENOL  
100 2-NITROANILINE  
100 2-NITROPHENOL  
100 3,3'-DICHLOROBENZIDINE  
100 3-NITROANILINE  
100 4-BROMOPHENYL PHENYL ETHER  
100 4-CHLORO-3-METHYLPHENOL  
100 4-CHLOROANILINE  
100 4-CHLOROPHENYL PHENYL ETHER  
100 4-NITROANILINE  
200 4-NITROPHENOL  
100 ACENAPHTHENE  
100 ACENAPHTHYLENE  
100 ANTHRACENE  
100 BENZO (A) ANTHRACENE  
100 BENZO (B AND/OR K) FLUORANTHENE

100 BENZO (GHI) PERYLENE  
100 BENZO-A-PYRENE  
100 BENZYL BUTYL PHTHALATE  
100 BIS (2-CHLOROETHOXY) METHANE  
100 BIS (2-CHLOROETHYL) ETHER  
100 BIS (2-ETHYLHEXYL) PHTHALATE  
100 CARBAZOLE  
100 CHRYSENE  
100 DI-N-BUTYL PHTHALATE  
100 DI-N-OCTYL PHTHALATE  
100 DIBENZO (A,H) ANTHRACENE  
100 DIBENZOFURAN  
100 DIETHYL PHTHALATE  
100 DIMETHYL PHTHALATE  
100 FLUORANTHENE  
100 FLUORENE  
100 HEXACHLOROBENZENE (HCB)  
100 HEXACHLOROBUTADIENE  
100 HEXACHLOROCYCLOPENTADIENE (HCCP)  
100 HEXACHLOROETHANE  
100 INDENO (1,2,3-CD) PYRENE  
100 ISOPHORONE  
100 N-NITROSODI-N-PROPYLAMINE  
100 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
100 NAPHTHALENE  
100 NITROBENZENE  
200 PENTACHLOROPHENOL  
100 PHENANTHRENE  
100 PHENOL  
100 PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/09/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 194 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 18-S02-001 COLLECTION START: 10/24/95 1720 STOP: 00/00/00  
\*\*

\*\*\* \*\* \*\* \*\* \* \* \* \* \* ANALYTICAL RESULTS ANALYTICAL RESULTS  
UG/L UG/L

5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
1.00	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
500	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
5.00	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT

SAMPLE AND ANALYSIS  
EPA-REGION IV E.

AGEMENT SYSTEM  
ATHENS, GA.

15/95

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PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S07-001

SAMPLE NO. 195  
SAMPLE TYPE: GROUNDWA  
COLLECTION START: 10/24/95  
STOP: 00/00/00

PROG ELEM: SSF  
CITY: PENSACOLA  
ST: FL

COLLECTED BY: F SLOAN

UG/L

ANALYTICAL RESULTS

ANALYTICAL RESULTS

5.0U SILVER  
15U ARSENIC  
NA BORON  
68 BARIUM  
2.5U BERYLLIUM  
2.5U CADMIUM  
5.0U COBALT  
5.0U CHROMIUM  
5.0U COPPER  
5.0U MOLYBDENUM  
10U NICKEL  
2.5U LEAD  
15U ANTIMONY  
20U SELENIUM  
12U TIN  
130 STRONTIUM  
25U TELLURIUM  
5.0U TITANIUM  
50U THALLIUM  
5.0U VANADIUM  
5.0U YTTRIUM  
26 ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
57 ALUMINUM  
24 MANGANESE

38 CALCIUM  
2.9 MAGNESIUM  
0.096 IRON  
5.9 SODIUM  
3.5 POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL







SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 195 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S07-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1605 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

100 (3-AND/OR 4-) METHYLPHENOL  
100 1,2,4-TRICHLOROBENZENE  
100 2,2'-CHLOROISOPROPYLETHER  
100 2,3,4,6-TETRACHLOROPHENOL  
100 2,4,5-TRICHLOROPHENOL  
100 2,4,6-TRICHLOROPHENOL  
100 2,4-DICHLOROPHENOL  
100 2,4-DIMETHYLPHENOL  
200 2,4-DINITROPHENOL  
100 2,4-DINITROTOLUENE  
100 2,6-DINITROTOLUENE  
100 2-CHLORONAPHTHALENE  
100 2-CHLOROPHENOL  
200 2-METHYL-4,6-DINITROPHENOL  
100 2-METHYLNAPHTHALENE  
100 2-METHYLPHENOL  
100 2-NITROANILINE  
100 2-NITROPHENOL  
100 3,3'-DICHLOROBENZIDINE  
100 3-NITROANILINE  
100 4-BROMOPHENYL PHENYL ETHER  
100 4-CHLORO-3-METHYLPHENOL  
100 4-CHLOROANILINE  
100 4-CHLOROPHENYL PHENYL ETHER  
100 4-NITROANILINE  
200 4-NITROPHENOL  
100 ACENAPHTHENE  
100 ACENAPHTHYLENE  
100 ANTHRACENE  
100 BENZO(A) ANTHRACENE  
100 BENZO(B AND/OR K) FLUORANTHENE

100 BENZO(GHI)PERYLENE  
100 BENZO-A-PYRENE  
100 BENZYL BUTYL PHTHALATE  
100 BIS(2-CHLOROETHOXY) METHANE  
100 BIS(2-CHLOROETHYL) ETHER  
100 BIS(2-ETHYLHEXYL) PHTHALATE  
100 CARBAZOLE  
100 CHRYSENE  
100 DI-N-BUTYLPHTHALATE  
100 DI-N-OCTYLPHTHALATE  
100 DIBENZO(A,H) ANTHRACENE  
100 DIBENZOFURAN  
100 DIETHYL PHTHALATE  
100 DIMETHYL PHTHALATE  
100 FLUORANTHENE  
100 FLUORENE  
100 HEXACHLOROBENZENE (HCB)  
100 HEXACHLOROBUTADIENE  
100 HEXACHLOROCYCLOPENTADIENE (HCCP)  
100 HEXACHLOROETHANE  
100 INDENO (1,2,3-CD) PYRENE  
100 ISOPHORONE  
100 N-NITROSODI-N-PROPYLAMINE  
100 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
100 NAPHTHALENE  
100 NITROBENZENE  
200 PENTACHLOROPHFNOL  
100 PHENANTHRENE  
100 PHENOL  
100 PYRENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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\*\*\*

PROJECT NO. 96-0002    SAMPLE NO. 195    PROG ELEM: SSF    COLLECTED BY: F SLOAN

SOURCE: NAS PENSACOLA    CITY: PENSACOLA    ST: FL

STATION ID: 38-S07-001    COLLECTION START: 10/24/95 1605    STOP: 00/00/00

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ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
5.00	CHLOROMETHANE	5.00	CIS-1, 3-DICHLOROPROPENE
6.2	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1, 3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1, 1, 2-TRICHLOROETHANE
5.00	1, 1-DICHLOROETHENE (1, 1-DICHLOROETHYLENE)	5.00	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
500	ACETONE	5.00	1, 3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
2.4AJ	TRANS-1, 2-DICHLOROETHENE	5.00	CHLOROBENZENE
0.68AJ	1, 1-DICHLOROETHANE	5.00	1, 1, 1, 2-TETRAHALOROETHANE
2.6AJ	CIS-1, 2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2, 2-DICHLOROPROPANE	5.00	(M- AND/OR P ) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
5.00	1, 1, 1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1, 1-DICHLOROPROPENE	5.00	1, 1, 2, 2-TETRAHALOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1, 2, 3-TRICHLOROPROPANE
5.00	1, 2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
5.00	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.00	1, 3-DICHLOROBENZENE
5.00	1, 2-DICHLOROPROPANE	5.00	1, 4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1, 2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

- \*A-AVERAGE VALUE    \*NA-NOT ANALYZED    \*J-ESTIMATED VALUE    \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN    \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 196 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
STATION ID: 38-S18-001 COLLECTION START: 10/24/95 1615 STOP: 00/00/00

ANALYTICAL RESULTS

MG/L

ANALYTICAL RESULTS

5.00 SILVER  
150 ARSENIC  
NA BORON  
99 BARIUM  
2.50 BERYLLIUM  
2.50 CADMIUM  
5.00 COBALT  
5.00 CHROMIUM  
5.3 COPPER  
5.00 MOLYBDENUM  
100 NICKEL  
3.3 LEAD  
150 ANTIMONY  
200 SELENIUM  
120 TIN  
230 STRONTIUM  
250 TELLURIUM  
5.00 TITANIUM  
500 THALLIUM  
5.00 VANADIUM  
5.00 YTTRIUM  
620 ZINC  
NA ZIRCONIUM  
0.20 MERCURY  
64 ALUMINUM  
15 MANGANESE

60 CALCIUM  
5.2 MAGNESIUM  
0.0250 IRON  
11 SODIUM  
6.4 POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS  
EPA REGION IV ES.

AGEMENT SYSTEM  
ATHENS, GA.

18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 196  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S18-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1615 STOP: 00/00/00

RESULTS UNITS PARAMETER  
4.0U UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 196 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
 \*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
 \*\*\* STATION ID: 38-S18-001 COLLECTION START: 10/24/95 1615 STOP: 00/00/00 \*\*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

0.50U ALDRIN	2.0U PCB-1232 (AROCOR 1232)
0.50U HEPTACHLOR	2.0U PCB-1248 (AROCOR 1248)
0.50U HEPTACHLOR EPOXIDE	2.0U PCB-1260 (AROCOR 1260)
0.50U ALPHA-BHC	2.0U PCB-1016 (AROCOR 1016)
0.50U BETA-BHC	20U TOXAPHENE
0.50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
0.50U DELTA-BHC	-- ALPHA-CHLORDENE /2
0.50U ENDOSULFAN I (ALPHA)	-- BETA CHLORDENE /2
0.50U DIELDRIN	-- GAMMA-CHLORDENE /2
0.50U 4,4'-DDT (P,P'-DDT)	-- TRANS-NONACHLOR /2
0.50U 4,4'-DDE (P,P'-DDE)	-- ALPHA-CHLORDANE /2
0.50U 4,4'-DDD (P,P'-DDD)	-- CIS-NONACHLOR /2
0.50U ENDRIN	-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U ENDOSULFAN II (BETA)	-- METHOXYCHLOR
0.50U ENDOSULFAN SULFATE	1.0U ENDRIN KETONE
1.0U CHLORDANE (TECH. MIXTURE) /1	0.50U
2.0U PCB-1242 (AROCOR 1242)	
2.0U PCB-1254 (AROCOR 1254)	
2.0U PCB-1221 (AROCOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.





## 11/09/95

A 5x5 grid of stars. The stars are arranged in a pattern that resembles a stylized letter 'A' or a similar shape. The first row has 5 stars, the second row has 4 stars, the third row has 3 stars, the fourth row has 2 stars, and the fifth row has 1 star. The stars are positioned at the intersections of the grid lines.

\*  
 \*  
 \*  
 \*  
 \*  
 \*

## ANALYTICAL RESULTS

ANALYTICAL RESULTS

1701

5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
1.00	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
0.66J	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
5.00	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
5.00	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
1.1J	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
1.7J	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
5.00	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
1.0J	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
7.6	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

METALS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 197 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S09-001  
\*\*  
\*\*\*

UG/L ANALYTICAL RESULTS  
MG/L ANALYTICAL RESULTS

5.00	SILVER	39	CALCIUM
150	ARSENIC	2.4	MAGNESIUM
NA	BORON	0.28	IRON
59	BARIIUM	6.9	SODIUM
2.50	BERYLLIUM	2.2	POTASSIUM
2.50	CADMIUM		
5.00	COBALT		
5.00	CHROMIUM		
5.00	COPPER		
5.00	MOLYBDENUM		
100	NICKEL		
2.50	LEAD		
150	ANTIMONY		
200	SELENIUM		
120	TIN		
150	STRONTIUM		
250	TELLURIUM		
5.00	TITANIUM		
500	THALLIUM		
5.00	VANADIUM		
5.00	YTTRIUM		
39	ZINC		
NA	ZIRCONIUM		
0.20	MERCURY		
500	ALUMINUM		
24	MANGANESE		

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 197  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S09-001  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 0845 STOP: 00/00/00

RESULTS UNITS PARAMETER  
4.00 UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS  
EPA-REGION IV  
AGEMENT SYSTEM  
ATHENS, GA.

17/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 197 SAMPLE TYPE: GROUNDWA  
CITY: PENSACOLA  
STATION ID: 38-S09-001  
COLLECTION START: 10/25/95 0845 STOP: 00/00/00

ANALYTICAL RESULTS  
UG/L

0.50U	ALDRIN	2.0U	PCB-1232 (AROCCLOR 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCCLOR 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCCLOR 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCCLOR 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	1.0U	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE)	0.50U	ENDRIN KETONE
2.0U	PCB-1242 (AROCCLOR 1242)		
2.0U	PCB-1254 (AROCCLOR 1254)		
2.0U	PCB-1221 (AROCCLOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 197 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S09-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 0845 STOP: 00/00/00

UG/L ANALYTICAL RESULTS ANALYTICAL RESULTS

100	(3-AND/OR 4-) METHYLPHENOL	100	BENZO (GHI) PERYLENE
100	1,2,4-TRICHLOROBENZENE	100	BENZO-A-PYRENE
100	2,2'-CHLOROISOPROPYLETHYER	100	BENZYL BUTYL PHTHALATE
100	2,3,4,6-TETRACHLOROPHENOL	100	BIS (2-CHLOROETHOXY) METHANE
100	2,4,5-TRICHLOROPHENOL	100	BIS (2-CHLOROETHYL) ETHER
100	2,4,6-TRICHLOROPHENOL	11	BIS (2-ETHYLHEXYL) PHTHALATE
100	2,4-DICHLOROPHENOL	100	CARBAZOLE
100	2,4-DIMETHYLPHENOL	100	CHRYSENE
200	2,4-DINITROPHENOL	100	DI-N-BUTYLPHTHALATE
100	2,4-DINITROTOLUENE	100	DI-N-OCTYLPHTHALATE
100	2,6-DINITROTOLUENE	100	DIBENZO (A,H) ANTHRACENE
100	2-CHLORONAPHTHALENE	100	DIBENZOFURAN
100	2-CHLOROPHENOL	100	DIETHYL PHTHALATE
200	2-METHYL-4,6-DINITROPHENOL	100	DIMETHYL PHTHALATE
100	2-METHYLNAPHTHALENE	100	FLUORANTHENE
100	2-METHYLPHENOL	100	FLUORENE
100	2-NITROANILINE	100	HEXACHLOROBENZENE (HCB)
100	2-NITROPHENOL	100	HEXACHLOROBUTADIENE
100	3,3'-DICHLOROBENZIDINE	100	HEXACHLOROCYCLOPENTADIENE (HCCP)
100	3-NITROANILINE	100	HEXACHLOROETHANE
100	4-BROMOPHENYL PHENYL ETHER	100	INDENO (1,2,3-CD) PYRENE
100	4-CHLORO-3-METHYLPHENOL	100	ISOPHORONE
100	4-CHLOROANILINE	100	N-NITROSODI-N-PROPYLAMINE
100	4-CHLOROPHENYL PHENYL ETHER	100	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100	4-NITROANILINE	100	NAPHTHALENE
200	4-NITROPHENOL	100	NITROBENZENE
100	ACENAPHTHENE	200	PENTACHLOROPHENOL
100	ACENAPHTHYLENE	100	PHENANTHRENE
100	ANTHRACENE	100	PHENOL
100	BENZO (A) ANTHRACENE	100	PYRENE
100	BENZO (B AND/OR K) FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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PURGEABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS: NAGEMENT SYSTEM 09/95

EPA REGION IV F ATHENS, GA.

\*\*\* \*\* \*\* \*\* \*\*

PROJECT NO. 96-0002 SAMPLE NO. 197

SOURCE: NAS PENSACOLA

STATION ID: 38-S09-001

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

COLLECTION START: 10/25/95 0845 STOP: 00/00/00

\*\*\* \*\* \*\* \*\*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
6.6	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
5.00	1,1-DICHLOROETHENE	2.8AJ	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
500	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
8.3A	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
5.00	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
12A	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
0.94AJ	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O CHLOROTOLUENE
5.00	BENZENE	5.00	P CHLOROTOLUENE
8.4	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROBENZENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 198 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\* \*\* \*\* \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\* \*\* \*\*  
\*\* STATION ID: 38-S22-001 COLLECTION START: 10/25/95 0935 STOP: 00/00/00 \*\* \*\* \*\*  
\*\* \*\* \*\* \*\*

ANALYTICAL RESULTS

UG/L

5.0U SILVER  
15U ARSENIC  
NA BORON  
46 BARIUM  
2.5U BERYLLIUM  
2.5U CADMIUM  
5.0U COBALT  
22 CHROMIUM  
5.0U COPPER  
5.0U MOLYBDENUM  
10U NICKEL  
2.5U LEAD  
15U ANTIMONY  
20U SELENIUM  
12U TIN  
130 STRONTIUM  
25U TELLURIUM  
5.0U TITANIUM  
50U THALLIUM  
5.0U VANADIUM  
5.0U YTTRIUM  
21 ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
52 ALUMINUM  
5.0U MANGANESE

ANALYTICAL RESULTS

MG/L

33 CALCIUM  
2.6 MAGNESIUM  
0.087 IRON  
12 SODIUM  
4.7 POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/17/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 198 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
STATION ID: 38-S22-001 COLLECTION START: 10/25/95 0935 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

0.50U	ALDRIN	2.0U	PCB-1232 (AROCLO 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCLO 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCLO 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCLO 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOROPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	--	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE) /1	1.0U	
2.0U	PCB-1242 (AROCLO 1242)	0.50U	ENDRIN KETONE
2.0U	PCB-1254 (AROCLO 1254)		
2.0U	PCB-1221 (AROCLO 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS  
EPA-REGION IV E.

AGEMENT SYSTEM  
ATHENS, GA.

16/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 198  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S22-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 0935 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10U	(3-AND/OR 4-) METHYLPHENOL	10U	BENZO (GHI) PERYLENE
10U	1,2,4-TRICHLOROBENZENE	10U	BENZO-A-PYRENE
10U	2,2'-CHLOROISOPROPYLETHYER	10U	BENZYL BUTYL PHTHALATE
10U	2,3,4,6-TETRACHLOROPHENOL	10U	BIS (2-CHLOROETHOXY) METHANE
10U	2,4,5-TRICHLOROPHENOL	10U	BIS (2-CHLOROETHYL) ETHER
10U	2,4,6-TRICHLOROPHENOL	10U	BIS (2-ETHYLHEXYL) PHTHALATE
10U	2,4-DICHLOROPHENOL	10U	CARBAZOLE
10U	2,4-DIMETHYLPHENOL	10U	CHRYSENE
20U	2,4-DINITROPHENOL	10U	DI-N-BUTYLPHTHALATE
10U	2,4-DINITROTOLUENE	10U	DI-N-OCTYLPHTHALATE
10U	2,6-DINITROTOLUENE	10U	DIBENZO (A,H) ANTHRACENE
10U	2-CHLORONAPHTHALENE	10U	DIBENZOFURAN
10U	2-CHLOROPHENOL	10U	DIETHYL PHTHALATE
20U	2-METHYL-4,6-DINITROPHENOL	10U	DIMETHYL PHTHALATE
10U	2-METHYLNAPHTHALENE	10U	FLUORANTHENE
10U	2-METHYLPHENOL	10U	FLUORENE
10U	2-NITROANILINE	10U	HEXACHLOROBENZENE (HCB)
10U	2-NITROPHENOL	10U	HEXACHLOROBUTADIENE
10U	3,3'-DICHLOROBENZIDINE	10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	3-NITROANILINE	10U	HEXACHLOROETHANE
10U	4-BROMOPHENYL PHENYL ETHER	10U	INDENO (1,2,3-CD) PYRENE
10U	4-CHLORO-3-METHYLPHENOL	10U	ISOPHORONE
10U	4-CHLOROANILINE	10U	N-NITROSODI-N-PROPYLAMINE
10U	4-CHLOROPHENYL PHENYL ETHER	10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-NITROANILINE	10U	NAPHTHALENE
20U	4-NITROPHENOL	10U	NITROBENZENE
10U	ACENAPHTHENE	20U	PENTACHLOROPHENOL
10U	ACENAPHTHYLENE	10U	PHENANTHRENE
10U	ANTHRACENE	10U	PHENOL
10U	BENZO (A) ANTHRACENE	10U	PYRENE
10U	BENZO (B AND/OR K) FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

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\*\* PROJECT NO. 96-0002 SAMPLE NO. 198 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: 38-S22-001 COLLECTION START: 10/25/95 0935 STOP: 00/00/00 \*\*  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

ANALYTICAL RESULTS UG/L

50JN	METHYL(METHYLETHYL)BENZENE (3 ISOMERS)
100JN	DIETHYLBENZENE (2 ISOMERS)
40JN	METHYLPROPYLBENZENE
300JN	ETHYLDIMETHYLBENZENE (4 ISOMERS)
20JN	ETHYL(METHYLETHYL)BENZENE
200JN	TETRAMETHYLBENZENE (3 ISOMERS)
30JN	DIETHYLMETHYLBENZENE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



SAMPLE AND ANALYSIS  
EPA REGION IV ES

AGEMENT SYSTEM  
ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 198  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S22-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/25/95 0935 STOP: 00/00/00

09/95

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
5.00	CHLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE
70	VINYL CHLORIDE	120	METHYL ISOBUTYL KETONE
5.00	BROMOMETHANE	5.00	TOLUENE
5.00	CHLOROETHANE	5.00	TRANS-1,3-DICHLOROPROPENE
5.00	TRICHLOROFLUOROMETHANE	5.00	1,1,2-TRICHLOROETHANE
1.3AJ	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	7.0A	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
500	ACETONE	5.00	1,3-DICHLOROPROPANE
120	CARBON DISULFIDE	120	METHYL BUTYL KETONE
5.00	METHYLENE CHLORIDE	5.00	DIBROMOCHLOROMETHANE
3.0AJ	TRANS-1,2-DICHLOROETHENE	5.00	CHLOROBENZENE
32A	1,1-DICHLOROETHANE	5.00	1,1,1,2-TETRACHLOROETHANE
12A	CIS-1,2-DICHLOROETHENE	5.00	ETHYL BENZENE
5.00	2,2-DICHLOROPROPANE	5.00	(M- AND/OR P-) XYLENE
500	METHYL ETHYL KETONE	5.00	O-XYLENE
5.00	BROMOCHLOROMETHANE	5.00	STYRENE
5.00	CHLOROFORM	5.00	BROMOFORM
8A	1,1,1-TRICHLOROETHANE	5.00	BROMOBENZENE
5.00	1,1-DICHLOROPROPENE	5.00	1,1,2,2-TETRACHLOROETHANE
5.00	CARBON TETRACHLORIDE	5.00	1,2,3-TRICHLOROPROPANE
5.00	1,2-DICHLOROETHANE	5.00	O-CHLOROTOLUENE
5.00	BENZENE	5.00	P-CHLOROTOLUENE
9.0A	TRICHLOROETHENE(TRICHLOROETHYLENE)	5.00	1,3-DICHLOROBENZENE
5.00	1,2-DICHLOROPROPANE	5.00	1,4-DICHLOROBENZENE
5.00	DIBROMOMETHANE	5.00	1,2-DICHLOROPROPENE
5.00	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/09/95

MISCELLANEOUS PURGEABLE ORGANICS DATA REPORT  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 198 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-S22-001 COLLECTION START: 10/25/95 0935 STOP: 00/00/00  
\*\*

ANALYTICAL RESULTS UG/L

1.6AJ	N-PROPYLBENZENE
24AJ	1,3,5-TRIMETHYLBENZENE
5.0AJ	T-BUTYLBENZENE
9.0A	1,2,4-TRIMETHYLBENZENE
14A	SEC-BUTYLBENZENE
18A	P-ISOPROPYLTOLUENE
8.3A	N-BUTYLBENZENE
8JN	ETHYLMETHYLBENZENE
N	PETROLEUM PRODUCT

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
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SAMPLE AND ANALYSIS  
EPA-REGION IV E:

AGEMENT SYSTEM  
ATHENS, GA.

5/95

METALS DATA K.L.O.R.T

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 193  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S17-001  
\*\*

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1115 STOP: 00/00/00

ANALYTICAL RESULTS

MG/L

ANALYTICAL RESULTS

2.5U SILVER  
7.5U ARSENIC  
NA BORON  
58 BARIUM  
1.2U BERYLLIUM  
1.2U CADMIUM  
2.5U COBALT  
4.4 CHROMIUM  
2.5U COPPER  
2.5U MOLYBDENUM  
5.0U NICKEL  
10U LEAD  
7.5U ANTIMONY  
10U SELENIUM  
6.2U TIN  
110 STRONTIUM  
120 TELLURIUM  
2.5U TITANIUM  
25U THALLIUM  
2.5U VANADIUM  
2.5U YTTRIUM  
2.5U ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
55 ALUMINUM  
33 MANGANESE

31 CALCIUM  
2.5 MAGNESIUM  
0.044 IRON  
4.3 SODIUM  
1.6 POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 193 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL STOP: 00/00/00 \*\*  
\*\* STATION ID: 38-S17-001 COLLECTION START: 10/24/95 1115 \*\*  
\*\*\*

RESULTS UNITS PARAMETER  
4.00 UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS  
EPA-REGION IV E.

AGEMENT SYSTEM  
ATHENS, GA.

17/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 193 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S17-001  
\*\* COLLECTION START: 10/24/95 1115 STOP: 00/00/00  
\*\* CITY: PENSACOLA ST: FL  
\*\* PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\* \*\*

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

0.50U	ALDRIN	2.0U	PCB-1232 (AROCOR 1232)
0.50U	HEPTACHLOR	2.0U	PCB-1248 (AROCOR 1248)
0.50U	HEPTACHLOR EPOXIDE	2.0U	PCB-1260 (AROCOR 1260)
0.50U	ALPHA-BHC	2.0U	PCB-1016 (AROCOR 1016)
0.50U	BETA-BHC	20U	TOXAPHENE
0.50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.50U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.50U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDENE /2
0.50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
0.50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
0.50U	ENDRIN	--	CIS-NONACHLOR /2
0.50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U	ENDOSULFAN SULFATE	1.0U	METHOXYCHLOR
1.0U	CHLORDANE (TECH. MIXTURE) /1	0.50U	ENDRIN KETONE
2.0U	PCB-1242 (AROCOR 1242)		
2.0U	PCB-1254 (AROCOR 1254)		
2.0U	PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV RSD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 193 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-S17-001 COLLECTION START: 10/24/95 1115 STOP: 00/00/00  
\*\*

\*\*\* \*\* \*\* \*\* \* \* \* \* \* ANALYTICAL RESULTS ANALYTICAL RESULTS  
UG/L UG/L

100	(3-AND/OR 4-) METHYLPHENOL	100	BENZO (GHI) PERYLENE
100	1,2,4-TRICHLOROBENZENE	100	BENZO-A-PYRENE
100	2,2'-CHLOROISOPROPYLETHER	100	BENZYL BUTYL PHTHALATE
100	2,3,4,6-TETRACHLOROPHENOL	100	BIS(2-CHLOROETHOXY) METHANE
100	2,4,5-TRICHLOROPHENOL	100	BIS(2-CHLOROETHYL) ETHER
100	2,4,6-TRICHLOROPHENOL	100	BIS(2-ETHYLHEXYL) PHTHALATE
100	2,4-DICHLOROPHENOL	100	CARBAZOLE
100	2,4-DIMETHYLPHENOL	100	CHRYSENE
200	2,4-DINITROPHENOL	100	DI-N-BUTYLPHTHALATE
100	2,4-DINITROTOLUENE	100	DI-N-OCTYLPHTHALATE
100	2,6-DINITROTOLUENE	100	DIBENZO (A,H) ANTHRACENE
100	2-CHLORONAPHTHALENE	100	DIBENZOFURAN
100	2-CHLOROPHENOL	100	DIETHYL PHTHALATE
200	2-METHYL-4,6-DINITROPHENOL	100	DIMETHYL PHTHALATE
14	2-METHYLNAPHTHALENE	100	FLUORANTHENE
100	2-METHYLPHENOL	100	FLUORENE
100	2-NITROANILINE	100	HEXACHLOROBENZENE (HCB)
100	2-NITROPHENOL	100	HEXACHLOROBUTADIENE
100	3,3'-DICHLOROBENZIDINE	100	HEXACHLOROCYCLOPENTADIENE (HCCP)
100	3-NITROANILINE	100	HEXACHLOROETHANE
100	4-BROMOPHENYL PHENYL ETHER	100	INDENO (1,2,3-CD) PYRENE
100	4-CHLORO-3-METHYLPHENOL	100	ISOPHORONE
100	4-CHLOROANILINE	100	N-NITROSODI-N-PROPYLAMINE
100	4-CHLOROPHENYL PHENYL ETHER	100	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100	4-NITROANILINE	24	NAPHTHALENE
200	4-NITROPHENOL	100	NITROBENZENE
100	ACENAPHTHENE	200	PENTACHLOROPHENOL
100	ACENAPHTHYLENE	100	PHENANTHRENE
100	ANTHRACENE	100	PHENOL
100	BENZO (A) ANTHRACENE	100	PYRENE
100	BENZO (B AND/OR K) FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



## MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 96-0002	SAMPLE NO. 193	SAMPLE TYPE: GROUNDWA	PROG ELEM: SSF	COLLECTED BY: D HUNTER
SOURCE: NAS PENSACOLA			CITY: PENSACOLA	ST: FL
STATION ID: 38-S17-001			COLLECTION START: 10/24/95	1115 STOP: 00/00/00

## ANALYTICAL RESULTS UG/L

70JN	(METHYLPROPYL) BENZENE
30JN	METHYL (METHYLETHYL) BENZENE
50JN	DIETHYLBENZENE
80JN	MENTHATRIENE
300JN	ETHYLDIMETHYLBENZENE (3 ISOMERS)
10JN	ETHYL (METHYLETHYL) BENZENE
20JN	(DIMETHYLPROPENYL) BENZENE
100JN	TETRAMETHYLBENZENE (2 ISOMERS)
10JN	(DIMETHYLPROPYL) BENZENE
100JN	DIETHYLMETHYLBENZENE (2 ISOMERS)
30JN	TETRAHYDRONAPHTHALENE
20JN	1-METHYLNAPHTHALENE

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.				



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/09/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 193 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: 38-S17-001  
\*\*  
\*\*\* ANALYTICAL RESULTS

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1115 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
100U	CHLOROMETHANE	100U	CIS-1,3-DICHLOROPROPENE
3700	VINYL CHLORIDE	250U	METHYL ISOBUTYL KETONE
100U	BROMOMETHANE	100U	TOLUENE
100U	CHLOROETHANE	100U	TRANS-1,3-DICHLOROPROPENE
100U	TRICHLOROFLUOROMETHANE	100U	1,1,2-TRICHLOROETHANE
21J	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	110	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1000U	ACETONE	100U	1,3-DICHLOROPROPANE
250U	CARBON DISULFIDE	250U	METHYL BUTYL KETONE
100U	METHYLENE CHLORIDE	100U	DIBROMOCHLOROMETHANE
14J	TRANS-1,2-DICHLOROETHENE	100U	CHLOROBENZENE
100U	1,1-DICHLOROETHANE	100U	1,1,1,2-TETRACHLOROETHANE
460	CIS-1,2-DICHLOROETHENE	100U	ETHYL BENZENE
100U	2,2-DICHLOROPROPANE	100U	(M- AND/OR P-) XYLENE
1000U	METHYL ETHYL KETONE	100U	O-XYLENE
100U	BROMOCHLOROMETHANE	100U	STYRENE
100U	CHLOROFORM	100U	BROMOFORM
100U	1,1,1-TRICHLOROETHANE	100U	BROMOBENZENE
100U	1,1-DICHLOROPROPENE	100U	1,1,2,2-TETRACHLOROETHANE
100U	CARBON TETRACHLORIDE	100U	1,2,3-TRICHLOROPROPANE
100U	1,2-DICHLOROETHANE	100U	O-CHLOROTOLUENE
100U	BENZENE	100U	P-CHLOROTOLUENE
19J	TRICHLOROETHENE (TRICHLOROETHYLENE)	100U	1,3-DICHLOROBENZENE
100U	1,2-DICHLOROPROPANE	100U	1,4-DICHLOROBENZENE
100U	DIBROMOMETHANE	100U	1,2-DICHLOROBENZENE
100U	BROMODICHLOROMETHANE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 193 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA  
STATION ID: 38-S17-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1115 STOP: 00/00/00

ANALYTICAL RESULTS: UG/L

20J	ISOPROPYLBENZENE
56J	N-PROPYLBENZENE
24J	1,3,5-TRIMETHYLBENZENE
170	1,2,4-TRIMETHYLBENZENE
29J	SEC-BUTYLBENZENE
23J	N-BUTYLBENZENE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1560 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GWT01001 COLLECTION START: 10/17/95 1240 STOP: 00/00/00 \*\*  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*  
\*\*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS IAGEMENT SYSTEM  
EPA-REGION IV ES, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1561 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA (FASP) PROG ELEM: SSF COLLECTED BY: J VAIL  
STATION ID: GWT03001 CITY: PENSACOLA ST: FL STOP: 00/00/00  
CASE NO.: 0 SAS NO.: FASO COLLECTION START: 10/17/95 1740 MD NO:  
D. NO.:

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
99	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
45JN	UG/L	CIS-1,2-DICHLOROETHENE
60JN	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
100JN	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0117 SAMPLE NO. 1562 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL STOP: 00/00/00 \*\*\*  
\*\*\* STATION ID: GWT03D01 COLLECTION START: 10/17/95 1740 MD NO: \*\*\*  
\*\*\* CASE NO.: 0 SAS NO.: PASO D. NO.: \*\*\*

RESULTS UNITS PARAMETER  
5.0U UG/L CADMIUM  
50U UG/L CHROMIUM  
110 UG/L LEAD

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYS ANAGEMENT SYSTEM  
EPA-REGION IV LLD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0117 SAMPLE NO. 1563 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*\*  
\*\*\* STATION ID: GWT04001 COLLECTION START 10/17/95 1740 STOP: 00/00/00 \*\*\*  
\*\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*\*

RESULTS	UNITS	PARAMETER
5.00	UG/L	CADMIUM
500	UG/L	CHROMIUM
16	UG/L	LEAD
500	UG/L	VINYL CHLORIDE
50	UG/L	TRANS-1,2-DICHLOROETHENE
50	UG/L	CIS-1,2-DICHLOROETHENE
50	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
50	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1564 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GWT06001 COLLECTION START: 10/18/95 0915 STOP: 00/00/00 \*\*  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
23	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BDD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1565 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GWT07001 COLLECTION START: 10/18/95 1040 STOP: 00/00/00 \*\*  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
93	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\* FOOTNOTES \*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1566 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
\*\* STATION ID: GWT08001 COLLECTION START: 10/18/95 1200 STOP: 00/00/00  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:  
\*\*\*

RESULTS	UNITS	PARAMETER
68	UG/L	CADMIUM
500	UG/L	CHROMIUM
44	UG/L	LEAD
500	UG/L	VINYL CHLORIDE
50	UG/L	TRANS-1,2-DICHLOROETHENE
50	UG/L	CIS-1,2-DICHLOROETHENE
50	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
50	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESJ, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0117 SAMPLE NO. 1567 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*\*  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*\*  
\*\* STATION ID: GWT09001 COLLECTION START: 10/18/95 1330 STOP: 00/00/00 \*\*\*  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*\*  
\*\*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
18	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\* FOOTNOTES \*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1568 SAMPLE TYPE: GROUNDWA  
\*\* SOURCE: NAS PENSACOLA (FASP)  
\*\* STATION ID: GWT10001  
\*\* CASE NO.: 0  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1500 STOP: 00/00/00  
D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
11	UG/L	CADMIUM
250U	UG/L	CHROMIUM
15	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSA, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1569 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GWT11001 COLLECTION START: 10/18/95 1195 STOP: 00/00/00 \*\*  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*REMARKS\*\*\*  
DATA REPORTED ON WET WEIGHT BASIS

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1570 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
\*\* STATION ID: GWT12001 COLLECTION START: 10/18/95 1450 STOP: 00/00/00  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:  
\*\*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

## 01/31/96

A 5x7 grid of stars forming the number 7. The stars are arranged as follows: Row 1: (1,1), (1,2), (1,3), (1,4), (1,5), (1,6), (1,7); Row 2: (2,1), (2,2), (2,3), (2,4), (2,5), (2,6), (2,7); Row 3: (3,1), (3,2), (3,3), (3,4), (3,5), (3,6), (3,7); Row 4: (4,1), (4,2), (4,3), (4,4), (4,5), (4,6), (4,7); Row 5: (5,1), (5,2), (5,3), (5,4), (5,5), (5,6), (5,7).

\*\*FOOTNOTES\*\*  
 \*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1572 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
STATION ID: GWT14001 COLLECTION START: 10/18/95 1745 STOP: 00/00/00  
CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
14JN	UG/L	CIS-1,2-DICHLOROETHENE
5JN	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS      AGEMENT SYSTEM  
EPA-REGION IV ES., ATHENS, GA.

04/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0117      SAMPLE NO. 1573      SAMPLE TYPE: GROUNDWA      PROG ELEM: SSF      COLLECTED BY: J VAIL      \*\*\*  
\*\* SOURCE: NAS PENSACOLA (FASP)      CITY: PENSACOLA      ST: FL      \*\*  
\*\* STATION ID: GWT15001      COLLECTION START: 10/18/95      1600      STOP: 00/00/00      \*\*  
\*\* CASE NO.: 0      SAS NO.: FASO      D. NO.:      MD NO:      \*\*  
\*\*\*

RESULTS	UNITS	PARAMETER
5.00	UG/L	CADMIUM
500	UG/L	CHROMIUM
150	UG/L	LEAD
500	UG/L	VINYL CHLORIDE
50	UG/L	TRANS-1,2-DICHLOROETHENE
50	UG/L	CIS-1,2-DICHLOROETHENE
50	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
50	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1575 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
STATION ID: GWT16001 COLLECTION START: 10/19/95 0935 STOP: 00/00/00  
CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS /AGEMENT SYSTEM  
EPA-REGION IV ESU, ATHENS, GA.

02/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1576 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GWT17001 COLLECTION START: 10/19/95 1045 STOP: 00/00/00 \*\*  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1577 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
STATION ID: GWT18001 COLLECTION START: 10/19/95 1010 STOP: 00/00/00  
CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
50	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS1 ANAGEMENT SYSTEM  
EPA-REGION IV BSO, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

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\*\* PROJECT NO. 96-0117 SAMPLE NO. 1578 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GWT19001 COLLECTION START: 10/19/95 1145 STOP: 00/00/00 \*\*  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
110	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1579 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
STATION ID: GWT20001 COLLECTION START: 1C/19/95 1405 STOP: 00/00/00  
CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS M EMENT SYSTEM  
EPA-REGION IV BSD, ..HENS, GA.

01/01/96

SPECIFIED ANALYSIS DATA REPORT

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\*\* PROJECT NO. 96-0117 SAMPLE NO. 1580 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
\*\* STATION ID: GWT22001 COLLECTION START: 10/19/95 1630 STOP: 00/00/00  
\*\* CASE NO.: 0 SAS NO.: FASO MD NO:  
\*\*\* \*\* \*\* \*\* \*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
16	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

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SPECIFIED ANALYSIS DATA REPORT

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\*\* PROJECT NO. 96-0117 SAMPLE NO. 1581 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
\*\* STATION ID: GWT23001 COLLECTION START: 10/20/95 0955 STOP: 00/00/00  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:  
\*\*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS GEMENT SYSTEM  
EPA-REGION IV ESL, ATHENS, GA.

01, 1/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0117 SAMPLE NO. 1582 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*\*  
\*\*\* STATION ID: GWT25001 COLLECTION START: 10/20/95 1150 STOP: 00/00/00 \*\*\*  
\*\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
29	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



## 01/31/96

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** PROJECT NO. 96-0117 SAMPLE NO. 1583 SAMPLE TYPE: GROUNDWA
** SOURCE: NAS PENSACOLA (FASP)
** STATION ID: GWT26001
** CASE NO.: 0
** SAS NO.: FASO
**
** PROG ELEM: SSF COLLECTED BY: J VAIL
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/20/95 1515 STOP: 00/00/00
** D. NO.: MD NO:

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\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN				
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				

SAMPLE AND ANALYSIS /AGEMENT SYSTEM  
EPA-REGION IV ES, ATHENS, GA.

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SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0117 SAMPLE NO. 1584 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL \*\*\*  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: GWT27001 COLLECTION START: 10/20/95 1630 STOP: 00/00/00 \*\*  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO: \*\*  
\*\*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
19JN	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
6JN	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

## 01/31/96

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SPECIFIED ANALYSIS DATA REPORT
** PROJECT NO. 96-0117 SAMPLE NO. 1585 SAMPLE TYPE: GROUNDWA
** SOURCE: NAS PENSACOLA (FASP)          PROG ELEM: SSF   COLLECTED BY: J VAIL
** STATION ID: GWT28001                  CITY: PENSACOLA    ST: FL
** CASE NO.: 0                          COLLECTION START: 10/20/95 STOP: 00/00/00
** SAS NO.: FASO                        D. NO.:           MD NO:

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\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ES&A, ATHENS, GA.

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SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1586 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
STATION ID: GWT29001 COLLECTION START: 10/20/95 1755 STOP: 00/00/00  
CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
16	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
12JN	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
35JN	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

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SPECIFIED ANALYSIS DATA REPORT

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\*\* PROJECT NO. 96-0117 SAMPLE NO. 1590 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
\*\* STATION ID: GWT30001 COLLECTION START: 10/21/95 1040 STOP: 00/00/00  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:  
\*\*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
280	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
13JN	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
17JN	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS AGEMENT SYSTEM  
EPA-REGION IV ESJ, ATHENS, GA.

6-31/96

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1591 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
STATION ID: GWT31001 COLLECTION START: 10/21/95 1240 STOP: 00/00/00  
CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
5.00	UG/L	CADMIUM
500	UG/L	CHROMIUM
16	UG/L	LEAD
500	UG/L	VINYL CHLORIDE
50	UG/L	TRANS-1,2-DICHLOROETHENE
50	UG/L	CIS-1,2-DICHLOROETHENE
50	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
130JN	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



## 01/31/96

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SPECIFIED ANALYSIS DATA REPORT
** ** ** ** **
** PROJECT NO. 96-0117 SAMPLE NO. 1593 SAMPLE TYPE: GROUNDWA          PROG ELEM: SSF      COLLECTED BY: J VAIL
** SOURCE: NAS PENSACOLA (FASP)              CITY: PENSACOLA        ST: FL           STOP: 00/00/00
** STATION ID: GWT33001                      COLLECTION START: 10/23/95   1240
** CASE NO.: 0                               D. NO.:

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**SAS NO. : FASO**

RESULTS	UNITS	PARAMETER
5.00	UG/L	CADMIUM
500	UG/L	CHROMIUM
34	UG/L	LEAD
500	UG/L	VINYL CHLORIDE
50	UG/L	TRANS-1,2-DICHLOROETHENE
50	UG/L	CIS-1,2-DICHLOROETHENE
50	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
50	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE                   \*NA-NOT ANALYZED                   \*NAI-INTERFERENCES               \*J-ESTIMATED VALUE               \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN               \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS      AGEMENT SYSTEM  
EPA-REGION IV ES.,      ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0117      SAMPLE NO. 1594      SAMPLE TYPE: GROUNDWA      PROG ELEM: SSF      COLLECTED BY: J VAIL      \*\*\*  
\*\* SOURCE: NAS PENSACOLA (FASP)      CITY: PENSACOLA      ST: FL      STOP: 00/00/00      \*\*  
\*\* STATION ID: GWT34001      COLLECTION START: 00/23/95      1515      MD NO:      \*\*  
\*\* CASE NO.: 0      SAS NO.: FASO      D. NO.:      \*\*  
\*\*\*

RESULTS	UNITS	PARAMETER
5.00	UG/L	CADMIUM
500	UG/L	CHROMIUM
64	UG/L	LEAD
500	UG/L	VINYL CHLORIDE
50	UG/L	TRANS-1,2-DICHLOROETHENE
50	UG/L	CIS-1,2-DICHLOROETHENE
50	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
50	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

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\*\* PROJECT NO. 96-0117 SAMPLE NO. 1595 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
\*\* STATION ID: GWT35001 COLLECTION START: 10/23/95 1500 STOP: 00/00/00  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:  
\*\*\*

RESULTS	UNITS	PARAMETER
5.00	UG/L	CADMIUM
500	UG/L	CHROMIUM
150	UG/L	LEAD
500	UG/L	VINYL CHLORIDE
50	UG/L	TRANS-1,2-DICHLOROETHENE
50	UG/L	CIS-1,2-DICHLOROETHENE
50	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
50	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\* FOOTNOTES \*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS  
EPA-REGION IV BUREAU, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1596 SAMPLE TYPE: GROUNDWA  
SOURCE: NAS PENSACOLA (FASP)  
STATION ID: GWT36001  
CASE NO.: 0  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1800 STOP: 00/00/00  
D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
5.00	UG/L	CADMIUM
500	UG/L	CHROMIUM
21	UG/L	LEAD
500	UG/L	VINYL CHLORIDE
50	UG/L	TRANS-1,2-DICHLOROETHENE
50	UG/L	CIS-1,2-DICHLOROETHENE
50	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
50	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1597 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
STATION ID: GWT37001 COLLECTION START: 10/23/95 1730 STOP: 00/00/00  
CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
16	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BOW, ATHENS, GA.

11/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1587 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
\*\* STATION ID: 38-G15001 COLLECTION START: 10/21/95 0930 STOP: 00/00/00  
\*\* CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:  
\*\*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
50U	UG/L	VINYL CHLORIDE
5JN	UG/L	TRANS-1,2-DICHLOROETHENE
10JN	UG/L	CIS-1,2-DICHLOROETHENE
5U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
BPA-REGION IV BSD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0117 SAMPLE NO. 1588 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL  
STATION ID: 38G16001 COLLECTION START: 10/21/95 1030 STOP: 00/00/00  
CASE NO.: 0 SAS NO.: FASO D. NO.: MD NO:

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
110JN	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
170JN	UG/L	CIS-1,2-DICHLOROETHENE
9JN	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
5U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALY. MANAGEMENT SYSTEM  
EPA-REGION IV ASD, ATHENS, GA.

01/31/96

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0117 SAMPLE NO. 1589 SAMPLE TYPE: GROUNDWA PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA (FASP) CITY: PENSACOLA ST: FL STOP: 00/00/00  
\*\* STATION ID: 38G17001 COLLECTION START: 10/21/95 1125 MD NO:  
\*\* CASE NO.: 0 SAS NO.: FASO  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS	UNITS	PARAMETER
5.0U	UG/L	CADMIUM
50U	UG/L	CHROMIUM
15U	UG/L	LEAD
3300JN	UG/L	VINYL CHLORIDE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
360JN	UG/L	CIS-1,2-DICHLOROETHENE
7JN	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
41JN	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 110 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T04-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1550 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
1.00 SILVER	1200 CALCIUM
5.00 ARSENIC	240 MAGNESIUM
NA BORON	4200 IRON
14 BARIUM	1000 SODIUM
0.50U BERYLLIUM	200U POTASSIUM
0.54 CADMIUM	6 PERCENT MOISTURE
1.00 COBALT	
8.7 CHROMIUM	
11 COPPER	
1.00 MOLYBDENUM	
3.4 NICKEL	
46 LEAD	
3.0U ANTIMONY	
4.0U SELENIUM	
4.0U TIN	
3.8 STRONTIUM	
5.0U TELLURIUM	
80 TITANIUM	
10U THALLIUM	
11 VANADIUM	
1.7 YTTRIUM	
42 ZINC	
NA ZIRCONIUM	
0.07 MERCURY	
7600 ALUMINUM	
86 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



12/18/95

## MATERIAL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

11/30/95

PESTICIDES/PCB'S DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 110 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T04-001  
\*\*  
\*\*\*

PROG ELEM: SSP COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1550 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

21U	ALDRIN	100U	PCB-1232 (AROCOR 1232)
21U	HEPTACHLOR	100U	PCB-1248 (AROCOR 1248)
21U	HEPTACHLOR EPOXIDE	100U	PCB-1260 (AROCOR 1260)
21U	ALPHA-BHC	100U	PCB-1016 (AROCOR 1016)
21U	BETA-BHC	830U	TOXAPHENE
21U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
21U	DELTA-BHC	--	ALPHA-CHLORDENE /2
21U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
3.1J	DIELDRIN	--	GAMMA-CHLORDENE /2
8.0J	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
3.8J	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
21U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
21U	ENDRIN	--	CIS-NONACHLOR /2
21U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLORPOXIDE) /2
21U	ENDOSULFAN SULFATE	52U	METHOXYCHLOR
52U	CHLORDANE (TECH. MIXTURE)	21U	ENDRIN KETONE
100U	PCB-1242 (AROCOR 1242)	6.6	PERCENT MOISTURE
100U	PCB-1254 (AROCOR 1254)		
100U	PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

**SAMPLE AND ANALYSIS**      **AGEMENT SYSTEM**  
**EPA-REGION IV ESU,**      **ATHENS, GA.**

11/08/95

# EXTRACTABLE ORGANICS DATA REPORT

[illegible]

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
37000	(3-AND/OR 4-)METHYLPHENOL	37000	BENZO (GHI)PERYLENE
37000	1,2,4-TRICHLOROBENZENE	37000	BENZO-A-PYRENE
37000	2,2'-CHLOROISOPROPYLETHER	37000	BENZYL BUTYL PHTHALATE
37000	2,3,4,6-TETRACHLOROPHENOL	37000	BIS (2-CHLOROETHOXY) METHANE
37000	2,4,5-TRICHLOROPHENOL	37000	BIS (2-CHLOROETHYL) ETHER
37000	2,4,6-TRICHLOROPHENOL	37000	BIS (2-ETHYLHEXYL) PHTHALATE
37000	2,4-DICHLOROPHENOL	37000	CARBAZOLE
37000	2,4-DIMETHYLPHENOL	37000	CHRYSENE
75000	2,4-DINITROPHENOL	37000	DI-N-BUTYLPHTHALATE
37000	2,4-DINITROTOLUENE	37000	DI-N-OCTYLPHTHALATE
37000	2,6-DINITROTOLUENE	37000	DIBENZO (A,H)ANTHRACENE
37000	2-CHLORONAPHTHALENE	37000	DIBENZOFURAN
37000	2-CHLOROPHENOL	37000	DIETHYL PHTHALATE
75000	2-METHYL-4,6-DINITROPHENOL	37000	DIMETHYL PHTHALATE
37000	2-METHYLNAPHTHALENE	37000	FLUORANTHENE
37000	2-METHYLPHENOL	37000	FLUORENE
37000	2-NITROANILINE	37000	HEXACHLOROBENZENE (HCB)
37000	2-NITROPHENOL	37000	HEXACHLOROBUTADIENE
37000	3,3'-DICHLOROBENZIDINE	37000	HEXACHLOROCYCLOPENTADIENE (HCCP)
37000	3-NITROANILINE	37000	HEXACHLOROETHANE
37000	4-BROMOPHENYL PHENYL ETHER	37000	INDENO (1,2,3 CD) PYRENE
37000	4-CHLORO-3-METHYLPHENOL	37000	ISOPHORONE
37000	4-CHLOROANILINE	37000	N-NITROSODIPHENYLAMINE
37000	4-CHLOROPHENYL PHENYL ETHER	37000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
37000	4-NITROANILINE	37000	NAPHTHALENE
75000	4-NITROPHENOL	37000	NITROBENZENE
37000	ACENAPHTHENE	75000	PENTACHLOROPHENOL
37000	ACENAPHTHYLENE	37000	PHENANTHRENE
37000	ANTHRACENE	37000	PHENOL
37000	BENZO (A) ANTHRACENE	37000	PYRENE
37000	BENZO (B AND/OR K) FLUORANTHENE	6.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

## \*\*\*FOOTNOTES\*\*\*

\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/08/95

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 110 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T04-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1550 STOP: 00/00/00

ANALYTICAL RESULTS UG/KG

7000JN OCTADECANOIC ACID

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS  
EPA-REGION IV ESU, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT

11/16/95

\*\*\* \*\* \*\* \*\* \*\*

PROJECT NO. 96-0002

STATION ID: SF-T04-001

110

SAMPLE TYPE: SOIL

11/16/95

1550

00/00/00

STOP: 00/00/00

11/16/95

\*\*\* \*\* \*\* \*\* \*\*

PROG ELEM: SSP

CITY: PENSACOLA

COLLECTION START: 00/17/95

1550

00/00/00

STOP: 00/00/00

11/16/95

\*\*\* \*\* \*\* \*\* \*

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

67UJ	CHLOROMETHANE	67UJ	CIS-1,3-DICHLOROPROPENE
67UJ	VINYL CHLORIDE	170UJ	METHYL ISOBUTYL KETONE
67UJ	BROMOMETHANE	67UJ	TOLUENE
67UJ	CHLOROETHANE	67UJ	TRANS-1,3-DICHLOROPROPENE
67UJ	TRICHLOROFLUOROMETHANE	67UJ	1,1,2-TRICHLOROETHANE
67UJ	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	67UJ	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
67UJ	ACETONE	67UJ	1,3-DICHLOROPROPANE
170UJ	CARBON DISULFIDE	170UJ	METHYL BUTYL KETONE
67UJ	METHYLENE CHLORIDE	67UJ	DIBROMOCHLOROMETHANE
67UJ	TRANS-1,2-DICHLOROETHENE	67UJ	CHLOROBENZENE
67UJ	1,1-DICHLOROETHANE	67UJ	1,1,1,2-TETRACHLOROETHANE
67UJ	CIS-1,2-DICHLOROETHENE	67UJ	ETHYL BENZENE
67UJ	2,2-DICHLOROPROPANE	67UJ	(M- AND/OR P-) XYLENE
67UJ	METHYL ETHYL KETONE	67UJ	O-XYLENE
67UJ	BROMOCHLOROMETHANE	67UJ	STYRENE
67UJ	CHLOROFORM	67UJ	BROMOFORM
67UJ	1,1,1-TRICHLOROETHANE	67UJ	BROMOBENZENE
67UJ	1,1-DICHLOROPROPENE	67UJ	1,1,2,2-TETRACHLOROETHANE
67UJ	CARBON TETRACHLORIDE	67UJ	1,2,3-TRICHLOROPROPANE
67UJ	1,2-DICHLOROETHANE	67UJ	O-CHLOROTOLUENE
67UJ	BENZENE	67UJ	P-CHLOROTOLUENE
67UJ	TRICHLOROETHENE (TRICHLOROETHYLENE)	67UJ	1,3-DICHLOROBENZENE
67UJ	1,2-DICHLOROPROPANE	67UJ	1,4-DICHLOROBENZENE
67UJ	DIBROMOMETHANE	67UJ	1,2-DICHLOROBENZENE
67UJ	BROMODICHLOROMETHANE	67UJ	PERCENT MOISTURE
		6.6	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 116 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T10-001  
\*\*  
\*\*\*

PROG ELEM: SSP COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1410 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
1.0U SILVER	510 CALCIUM
3.0U ARSENIC	160 MAGNESIUM
NA BORON	4500 IRON
12 BARIUM	100U SODIUM
0.50U BERYLLIUM	200U POTASSIUM
0.50 CADMIUM	6 PERCENT MOISTURE
1.0U COBALT	
11 CHROMIUM	
6.3 COPPER	
1.0U MOLYBDENUM	
3.0 NICKEL	
23 LEAD	
3.0U ANTIMONY	
4.0U SELENIUM	
3.0U TIN	
2.4 STRONTIUM	
5.0U TELLURIUM	
75 TITANIUM	
100 THALLIUM	
12 VANADIUM	
1.8 YTTRIUM	
57 ZINC	
NA ZIRCONIUM	
0.17 MERCURY	
8700 ALUMINUM	
100 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYS     ANAGEMENT SYSTEM  
EPA-REGION IV     , ATHENS, GA.

2/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*  
\*\*     PROJECT NO. 96-0002     SAMPLE NO.     116     SAMPLE TYPE: SOIL     PROG ELEM: SSF     COLLECTED BY: F SLOAN     \*\*\*  
\*\*     SOURCE: NAS PENSACOLA     CITY: PENSACOLA     ST: FL     COLLECTION START: 10/18/85     1410     STOP: 00/00/00     \*\*\*  
\*\*     STATION ID: SF-T10-001     \*\*\*  
\*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*     \*\*\*

RESULTS     UNITS     PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE     \*NA-NOT ANALYZED     \*NAI-INTERFERENCES     \*J-ESTIMATED VALUE     \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN     \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

## 11/20/95

**COLLECTION START: 10/18/85 1410 STOP: 00/00/00**

## ANALYTICAL RESULTS

## ANALYTICAL RESULTS

\*\*\*REMARKS\*\*\*

2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESU, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 116 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SF-T10-001 COLLECTION START: 10/18/85 1410 STOP: 00/00/00  
\*\*

UG/KG ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

3400U (3-AND/OR 4-) METHYLPHENOL  
3400U 1,2,4-TRICHLOROBENZENE  
3400U 2,2'-CHLOROISOPROPYLETHER  
3400U 2,3,4,6-TETRACHLOROPHENOL  
3400U 2,4,5-TRICHLOROPHENOL  
3400U 2,4,6-TRICHLOROPHENOL  
3400U 2,4-DICHLOROPHENOL  
3400U 2,4-DIMETHYLPHENOL  
6900U 2,4-DINITROPHENOL  
3400U 2,4-DINITROTOLUENE  
3400U 2,6-DINITROTOLUENE  
3400U 2-CHLORONAPHTHALENE  
3400U 2-CHLOROPHENOL  
6900U 2-METHYL-4,6-DINITROPHENOL  
3400U 2-METHYLNAPHTHALENE  
3400U 2-METHYLPHENOL  
3400U 2-NITROANILINE  
3400U 2-NITROPHENOL  
3400U 3,3'-DICHLOROBENZIDINE  
3400U 3-NITROANILINE  
3400U 4-BROMOPHENYL PHENYL ETHER  
3400U 4-CHLORO-3-METHYLPHENOL  
3400U 4-CHLOROANILINE  
3400U 4-CHLOROPHENYL PHENYL ETHER  
3400U 4-NITROANILINE  
6900U 4-NITROPHENOL  
3400U ACENAPHTHENE  
3400U ACENAPHTYLENE  
3400U ANTHRACENE  
3400U BENZO (A) ANTHRACENE  
3400U BENZO (B AND/OR K) FLUORANTHENE

BENZO (GHI) PERYLENE  
3400U BENZO-A-PYRENE  
3400U BENZYL BUTYL PHTHALATE  
3400U BIS (2-CHLOROETHOXY) METHANE  
3400U BIS (2-CHLOROETHYL) ETHER  
3400U BIS (2-ETHYLHEXYL) PHTHALATE  
3400U CARBAZOLE  
3400U CHRYSENE  
3400U DI-N-BUTYLPHTHALATE  
3400U DI-N-OCTYLPHTHALATE  
3400U DIBENZO (A,H) ANTHRACENE  
3400U DIBENZOFURAN  
3400U DIETHYL PHTHALATE  
3400U DIMETHYL PHTHALATE  
3400U FLUORANTHENE  
3400U FLUORENE  
3400U HEXACHLOROBENZENE (HCB)  
3400U HEXACHLOROBUTADIENE  
3400U HEXACHLOROCYCLOPENTADIENE (HCCP)  
3400U HEXACHLOROETANE  
3400U INDENO (1,2,3-CD) PYRENE  
3400U ISOPHORONE  
3400U N-NITROSODI-N-PROPYLAMINE  
3400U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
3400U NAPHTHALENE  
3400U NITROBENZENE  
6900U PENTACHLOROPHENOL  
3400U PHENANTHRENE  
3400U PHENOL  
3400U PYRENE  
5.7 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 116 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SF-T10-001 COLLECTION START: 10/18/85 1410 STOP: 00/00/00  
\*\*

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

88U CHLOROMETHANE  
88U VINYL CHLORIDE  
88U BROMOMETHANE  
88U CHLOROETHANE  
88U TRICHLOROFLUOROMETHANE  
88U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)  
88U ACETONE  
220U CARBON DISULFIDE  
88U METHYLENE CHLORIDE  
88U TRANS-1,2-DICHLOROETHENE  
88U 1,1-DICHLOROETHANE  
88U CIS-1,2-DICHLOROETHENE  
88U 2,2-DICHLOROPROPANE  
88U METHYL ETHYL KETONE  
88U BROMOCHLOROMETHANE  
88U CHLOROFORM  
88U 1,1,1-TRICHLOROETHANE  
88U 1,1-DICHLOROPROPENE  
88U CARBON TETRACHLORIDE  
88U 1,2-DICHLOROETHANE  
88U BENZENE  
88U TRICHLOROETHENE (TRICHLOROETHYLENE)  
88U 1,2-DICHLOROPROPANE  
88U DIBROMOMETHANE  
88U BROMODICHLOROMETHANE

CIS-1,3-DICHLOROPROPENE  
METHYL ISOBUTYL KETONE  
TOLUENE  
TRANS-1,3-DICHLOROPROPENE  
1,1,2-TRICHLOROETHANE  
TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
1,3-DICHLOROPROPANE  
METHYL BUTYL KETONE  
DIBROMOCHLOROMETHANE  
CHLOROBENZENE  
1,1,1,2-TETRACHLOROETHANE  
ETHYL BENZENE  
(M- AND/OR P-) XYLENE  
O-XYLENE  
STYRENE  
BROMOFORM  
BROMOBENZENE  
1,1,2,2-TETRACHLOROETHANE  
1,2,3-TRICHLOROPROPANE  
O-CHLOROTOLUENE  
P-CHLOROTOLUENE  
1,3-DICHLOROBENZENE  
1,4-DICHLOROBENZENE  
1,2-DICHLOROBENZENE  
PERCENT MOISTURE

5.6

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS AGEMENT SYSTEM  
EPA-REGION IV ES., ATHENS, GA.

11/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 120 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T14-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1530 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

SILVER 360 CALCIUM  
8.7 ARSENIC 130 MAGNESIUM  
NA BORON 22000 IRON  
6.2 BARIUM 4000 SODIUM  
2.00 BERYLLIUM 8000 POTASSIUM  
2.00 CADMIUM 9 PERCENT MOISTURE  
4.00 COBALT  
34 CHROMIUM  
5.2 COPPER  
4.00 MOLYBDENUM  
8.00 NICKEL  
6.7 LEAD  
120 ANTIMONY  
160 SELENIUM  
100 TIN  
4.00 STRONTIUM  
200 TELLURIUM  
130 TITANIUM  
400 THALLIUM  
55 VANADIUM  
4.00 YTTRIUM  
4.3 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
35000 ALUMINUM  
10 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

**12/18/95**

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SPECIFIED ANALYSIS DATA REPORT
*** ** *
** PROJECT NO. 96-0002 SAMPLE NO. 120 SAMPLE TYPE: SOIL          ***
** SOURCE: NAS PENSACOLA                                PROG ELEM: SSF   COLLECTED BY: F SLOAN    ***
** STATION ID: SF-T14-001                               CITY: PENSACOLA      ST: FL              ***
**                                                       COLLECTION START: 10/18/85 1530 STOP: 00/00/00 ***
**
*** ** *

```

RESULTS	UNITS	PARAMETER
0.220	MG/KG	CYANIDE

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



**SAMPLE AND ANALYSIS ! EMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.**

11,08/95

# EXTRACTABLE ORGANICS DATA REPORT

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** PROJECT NO. 96-0002 SAMPLE NO. 120 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SF-T14-001
**
** PROG ELEM: SSF COLLECTED BY: F SLOAN
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/18/85 1530 STOP: 00/00/00

```

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
3800U	(3-AND/OR 4-)METHYLPHENOL	3800U	BENZO(GHI)PERYLENE
3800U	1,2,4-TRICHLOROBENZENE	3800U	BENZO-A-PYRENE
3800U	2,2'-CHLOROISOPROPYLETHER	3800U	BENZYL BUTYL PHTHALATE
3800U	2,3,4,6-TETRACHLOROPHENOL	3800U	BIS(2-CHLOROETHOXY) METHANE
3800U	2,4,5-TRICHLOROPHENOL	3800U	BIS(2-CHLOROETHYL) ETHER
3800U	2,4,6-TRICHLOROPHENOL	3800U	BIS(2-ETHYLHEXYL) PHTHALATE
3800U	2,4-DICHLOROPHENOL	3800U	CARBAZOLE
3800U	2,4-DIMETHYLPHENOL	3800U	CHRYSENE
7600U	2,4-DINITROPHENOL	3800U	DI-N-BUTYLPHTHALATE
3800U	2,4-DINITROTOLUENE	3800U	DI-N-OCTYLPHTHALATE
3800U	2,6-DINITROTOLUENE	3800U	DIBENZO(A,H)ANTHRACENE
3800U	2-CHLORONAPHTHALENE	3800U	DIBENZOFURAN
3800U	2-CHLOROPHENOL	3800U	DIETHYL PHTHALATE
7600U	2-METHYL-4,6-DINITROPHENOL	3800U	DIMETHYL PHTHALATE
3800U	2-METHYLNAPHTHALENE	3800U	FLUORANTHENE
3800U	2-METHYLPHENOL	3800U	FLUORENE
3800U	2-NITROANILINE	3800U	HEXACHLOROBENZENE (HCB)
3800U	2-NITROPHENOL	3800U	HEXACHLOROBUTADIENE
3800U	3,3'-DICHLOROBENZIDINE	3800U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3800U	3-NITROANILINE	3800U	HEXACHLOROETHANE
3800U	4-BROMOPHENYL PHENYL ETHER	3800U	INDENO (1,2,3-CD) PYRENE
3800U	4-CHLORO-3-METHYLPHENOL	3800U	ISOPHORONE
3800U	4-CHLOROANILINE	3800U	N-NITROSODI-N-PROPYLAMINE
3800U	4-CHLOROPHENYL PHENYL ETHER	3800U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3800U	4-NITROANILINE	3800U	NAPHTHALENE
7600U	4-NITROPHENOL	3800U	NITROBENZENE
3800U	ACENAPHTHENE	7600U	PENTACHLOROPHENOL
3800U	ACENAPHTHYLENE	3800U	PHENANTHRENE
3800U	ANTHRACENE	3800U	PHENOL
3800U	BENZO(A)ANTHRACENE	3800U	PYRENE
3800U	BENZO(B AND/OR K)FLUORANTHENE	8.9	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

## \*\*\*FOOTNOTES\*\*\*

POINCLES	*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
	*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
	*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				

11/16/95

## CC/OT/IT

**	PROJECT NO.	96-0002	SAMPLE NO.	120	SAMPLE TYPE:	SOIL	PROG ELEM:	SSF	COLLECTED BY:	F SLOAN	**	
**	SOURCE:	NAS PENSACOLA					CITY:	PENSACOLA		ST: FL	**	
**	STATION ID:	SF-T14-001					COLLECTION START:	10/18/85	1530	STOP:	00/00/00	**

## ANALYTICAL RESULTS

UG / KG

46U	CHLOROMETHANE	46U	CIS-1,3-DICHLOROPROPENE
46U	VINYL CHLORIDE	110U	METHYL ISOBUTYL, KETONE
46U	BROMOMETHANE	46U	TOLUENE
46U	CHLOROETHANE	46U	TRANS-1,3-DICHLOROPROPENE
46U	TRICHLOROFLUOROMETHANE	46U	1,1,2-TRICHLOROETHANE
46U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	46U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
460U	ACETONE	46U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
46U	METHYLENE CHLORIDE	46U	DIBROMOCHLOROMETHANE
46U	TRANS-1,2-DICHLOROETHENE	46U	CHLOROBENZENE
46U	1,1-DICHLOROETHANE	46U	1,1,1,2-TETRACHLOROETHANE
46U	CIS-1,2-DICHLOROETHENE	46U	ETHYL BENZENE
46U	2,2-DICHLOROPROPANE	46U	(M- AND/OR P-)XYLENE
460U	METHYL ETHYL KETONE	46U	O-XYLENE
46U	BROMOCHLOROMETHANE	46U	STYRENE
46U	CHLOROFORM	46U	BROMOFORM
46U	1,1,1-TRICHLOROETHANE	46U	BROMOBENZENE
46U	1,1-DICHLOROPROPENE	46U	1,1,2,2-TETRACHLOROETHANE
46U	CARBON TETRACHLORIDE	46U	1,2,3-TRICHLOROPROPANE
46U	1,2-DICHLOROETHANE	46U	O-CHLOROTOLUENE
46U	BENZENE	46U	P-CHLOROTOLUENE
46U	TRICHLOROETHENE (TRICHLOROETHYLENE)	46U	1,3-DICHLOROBENZENE
46U	1,2-DICHLOROPROPANE	46U	1,4-DICHLOROBENZENE
46U	DIBROMOMETHANE	46U	1,2-DICHLOROBENZENE
46U	BROMODICHLOROMETHANE	8.9	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

FOOTNOTES\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				



SAMPLE AND ANALYSIS NAGEMENT SYSTEM  
EPA-REGION IV ESJ, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 172 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T29-001

PROG ELEM: SSP COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1650 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
1.0U SILVER	190 CALCIUM
3.0U ARSENIC	38 MAGNESIUM
NA BORON	2000 IRON
2.5 BARIUM	100U SODIUM
0.50U BERYLLIUM	220 POTASSIUM
0.50U CADMIUM	10 PERCENT MOISTURE
1.6 COBALT	
3.6 CHROMIUM	
1.0U COPPER	
1.0U MOLYBDENUM	
2.0U NICKEL	
4.0U LEAD	
3.0U ANTIMONY	
4.0U SELENIUM	
3.0U TIN	
1.8 STRONTIUM	
5.0U TELLURIUM	
37 TITANIUM	
10U THALLIUM	
6.1 VANADIUM	
1.0U YTTRIUM	
1.0U ZINC	
NA ZIRCONIUM	
0.05U MERCURY	
3200 ALUMINUM	
3.1 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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12/18/95

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SPECIFIED ANALYSIS DATA REPORT
** PROJECT NO. 96-0002 SAMPLE NO. 172 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SF-T29-001
**
** PROG ELEM: SSF COLLECTED BY: J VAIL
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/20/95 1650 STOP: 00/00/00
**

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[illegible]

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				

SAMPLE AND ANALYSIS EPA-REGION IV ESD, ATHENS, GA. AGEMENT SYSTEM

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 172 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T29-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1650 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

31000	(3-AND/OR 4-)METHYLPHENOL	31000	BENZO(GHI)PERYLENE
31000	1,2,4-TRICHLOROBENZENE	31000	BENZO-A-PYRENE
31000	2,2'-CHLOROISOPROPYLETHER	31000	BENZYL BUTYL PHTHALATE
31000	2,3,4,6-TETRACHLOROPHENOL	31000	BIS(2-CHLOROETHOXY) METHANE
31000	2,4,5-TRICHLOROPHENOL	31000	BIS(2-CHLOROETHYL) ETHER
31000	2,4,6-TRICHLOROPHENOL	31000	BIS(2-ETHYLHEXYL) PHTHALATE
31000	2,4-DICHLOROPHENOL	31000	CARBAZOLE
31000	2,4-DIMETHYLPHENOL	31000	CHRYSENE
62000	2,4-DINITROPHENOL	31000	DI-N-BUTYLPHTHALATE
31000	2,4-DINITROTOLUENE	31000	DI-N-OCTYLPHTHALATE
31000	2,6-DINITROTOLUENE	31000	DIBENZO(A,H)ANTHRACENE
31000	2-CHLORONAPHTHALENE	31000	DIBENZOFURAN
31000	2-CHLOROPHENOL	31000	DIETHYL PHTHALATE
62000	2-METHYL-4,6-DINITROPHENOL	31000	DIMETHYL PHTHALATE
31000	2-METHYLNAPHTHALENE	31000	FLUORANTHENE
31000	2-METHYLPHENOL	31000	FLUORENE
31000	2-NITROANILINE	31000	HEXACHLOROBENZENE (HCB)
31000	2-NITROPHENOL	31000	HEXACHLOROBUTADIENE
31000	3,3'-DICHLOROBENZIDINE	31000	HEXACHLOROCYCLOPENTADIENE (HCCP)
31000	3-NITROANILINE	31000	HEXACHLOROETHANE
31000	4-BROMOPHENYL PHENYL ETHER	31000	INDENO (1,2,3-CD) PYRENE
31000	4-CHLORO-3-METHYLPHENOL	31000	ISOPHORONE
31000	4-CHLOROANILINE	31000	N-NITROSODI-N-PROPYLAMINE
31000	4-CHLOROPHENYL PHENYL ETHER	31000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
31000	4-NITROANILINE	31000	NAPHTHALENE
62000	4-NITROPHENOL	31000	NITROBENZENE
31000	ACENAPHTHENE	62000	PENTACHLOROPHENOL
31000	ACENAPHTHYLENE	31000	PHENANTHRENE
31000	ANTHRACENE	31000	PHENOL
31000	BENZO(A)ANTHRACENE	31000	PYRENE
31000	BENZO(B AND/OR K)FLUORANTHENE	10.0	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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12/04/95

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1650 ST

## ANALYTICAL RESULTS

CIS-1,3-DICHLOROPROPENE  
METHYL ISOBUTYL KETONE  
TOLUENE  
TRANS-1,3-DICHLOROPROPENE  
1,1,2-TRICHLOROETHANE  
TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
1,3-DICHLOROPROPANE  
METHYL BUTYL KETONE  
DIBROMOCHLOROMETHANE  
CHLOROBENZENE  
1,1,1,2-TETRACHLOROETHANE  
ETHYL BENZENE  
(M- AND/OR P-) XYLENE  
O-XYLENE  
STYRENE  
BROMOFORM  
BROMOBENZENE  
1,1,2,2-TETRACHLOROETHANE  
1,2,3-TRICHLOROPROPANE  
O-CHLOROTOLUENE  
P-CHLOROTOLUENE  
1,3-DICHLOROBENZENE  
1,4-DICHLOROBENZENE  
1,2-DICHLOROBENZENE  
PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

ATIVE EVIDENCE OF PRO-  
TIVE THAN VALUE GIVEN  
T.



SAMPLE AND ANALYSIS AGEMENT SYSTEM  
EPA-REGION IV ES, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 174 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T32-001  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 0835 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

55 CALCIUM  
100 MAGNESIUM  
51 IRON  
1000 SODIUM  
2000 POTASSIUM  
7 PERCENT MOISTURE

MG/KG

1.00 SILVER  
3.00 ARSENIC  
NA BORON  
1.00 BARIUM  
0.500 BERYLLIUM  
0.500 CADMIUM  
1.00 COBALT  
1.00 CHROMIUM  
1.00 COPPER  
1.00 MOLYBDENUM  
2.00 NICKEL  
4.00 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
3.00 TIN  
1.00 STRONTIUM  
5.00 TELLURIUM  
2.2 TITANIUM  
100 THALLIUM  
1.00 VANADIUM  
1.00 YTTRIUM  
1.00 ZINC  
NA ZIRCONIUM  
0.050 MERCURY  
36 ALUMINUM  
1.00 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 174 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T32-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 0835 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

UG/KG

(3-AND/OR 4-) METHYLPHENOL  
1,2,4-TRICHLOROBENZENE  
2,2'-CHLOROISOPROPYLETHER  
2,3,4,6-TETRACHLOROPHENOL  
2,4,5-TRICHLOROPHENOL  
2,4,6-TRICHLOROPHENOL  
2,4-DICHLOROPHENOL  
2,4-DIMETHYLPHENOL  
2,4-DINITROPHENOL  
2,4-DINITROTOLUENE  
2,6-DINITROTOLUENE  
2-CHLORONAPHTHALENE  
2-CHLOROPHENOL  
2-METHYL-4,6-DINITROPHENOL  
2-METHYLNAPHTHALENE  
2-METHYLPHENOL  
2-NITROANILINE  
2-NITROPHENOL  
3,3'-DICHLOROBENZIDINE  
3-NITROANILINE  
4-BROMOPHENYL PHENYL ETHER  
4-CHLORO-3-METHYLPHENOL  
4-CHLOROANILINE  
4-CHLOROPHENYL PHENYL ETHER  
4-NITROANILINE  
4-NITROPHENOL  
ACENAPHTHENE  
ACENAPHTHYLENE  
ANTHRACENE  
BENZO(A)ANTHRACENE  
BENZO(B AND/OR K)FLUORANTHENE

BENZO(GHI)PERYLENE  
BENZO-A-PYRENE  
BENZYL BUTYL PHTHALATE  
BIS(2-CHLOROETHOXY) METHANE  
BIS(2-CHLOROETHYL) ETHER  
BIS(2-ETHYLHEXYL) PHTHALATE  
CARBAZOLE  
CHRYSENE  
DI-N-BUTYLPHTHALATE  
DI-N-OCTYLPHTHALATE  
DIBENZO(A,H)ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHYL PHTHALATE  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE (HCB)  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE (HCCP)  
HEXACHLOROETHANE  
INDENO (1,2,3-CD) PYRENE  
ISOPHORONE  
N-NITROSODI-N-PROPYLAMINE  
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
NAPHTHALENE  
NITROBENZENE  
PENTACHLOROPHENOL  
PHENANTHRENE  
PHENOL  
PYRENE  
PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



**12/04/95**

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 1C/23/95 0835 STOP: 00/00/00

## ANALYTICAL RESULTS

CIS-1,3-DICHLOROPROPENE  
METHYL ISOBUTYL KETONE  
TOLUENE  
TRANS-1,3-DICHLOROPROPENE  
1,1,2-TRICHLOROETHANE  
TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
1,3-DICHLOROPROPANE  
METHYL BUTYL KETONE  
DIBROMOCHLOROMETHANE  
CHLOROBENZENE  
1,1,1,2-TETRACHLOROETHANE  
ETHYL BENZENE  
(M- AND/OR P-) XYLENE  
O-XYLENE  
STYRENE  
BROMOFORM  
BROMOBENZENE  
1,1,2,2-TETRACHLOROETHANE  
1,2,3-TRICHLOROPROPANE  
O-CHLOROTOLUENE  
P-CHLOROTOLUENE  
1,3-DICHLOROBENZENE  
1,4-DICHLOROBENZENE  
1,2-DICHLOROBENZENE  
PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN				
*II-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				

SAMPLE AND ANALYSIS: JAGEMENT SYSTEM  
EPA-REGION IV B., ATHENS, GA.

METALS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 177 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T35-001

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1300 STOP: 00/00/00

15/95

ANALYTICAL RESULTS									
MG/KG									
1.0U	SILVER	2000	CALCIUM						
3.0U	ARSENIC	440	MAGNESIUM						
NA	BORON	4200	IRON						
18	BARIUM	100U	SODIUM						
0.50U	BERYLLIUM	300U	POTASSIUM						
1.1	CADMIUM	6	PERCENT MOISTURE						
2.0U	COBALT								
9.9	CHROMIUM								
11	COPPER								
1.0U	MOLYBDENUM								
3.9	NICKEL								
75	LEAD								
3.0U	ANTIMONY								
4.0U	SELENIUM								
3.5U	TIN								
8.7	STRONTIUM								
5.0U	TELLURIUM								
72	TITANIUM								
10U	THALLIUM								
8.8	VANADIUM								
2.3	YTTRIUM								
86	ZINC								
NA	ZIRCONIUM								
0.85	MERCURY								
5400	ALUMINUM								
92	MANGANESE								

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 177 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: J VAIL \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL STOP: 00/00/00 \*\*  
\*\* STATION ID: SF-T35-001 COLLECTION START: 10/23/95 1300 \*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS AGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 177 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T35-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/23/95 1300 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

50U	ALDRIN	500U	PCB-1232 (AROCOR 1232)
50U	HEPTACHLOR	500U	PCB-1248 (AROCOR 1248)
50U	HEPTACHLOR EPOXIDE	500U	PCB-1260 (AROCOR 1260)
50U	ALPHA-BHC	500U	PCB-1016 (AROCOR 1016)
50U	BETA-BHC	3000U	TOXAPHENE
50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
50U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
50U	DIELDRIN	--	GAMMA-CHLORDENE /2
11J	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
50U	ENDRIN	--	CIS-NONACHLOR /2
50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
50U	ENDOSULFAN SULFATE	200U	METHOXYCHLOR
200U	CHLORDANE (TECH. MIXTURE)	50U	ENDRIN KETONE
500U	PCB-1242 (AROCOR 1242)	6.2	PERCENT MOISTURE
500U	PCB-1254 (AROCOR 1254)		
500U	PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 177 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T35-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1300 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

UG/KG

4100U (3-AND/OR 4-) METHYLPHENOL  
4100U 1,2,4-TRICHLOROBENZENE  
4100U 2,2'-CHLOROISOPROPYLETHER  
4100U 2,3,4,6-TETRACHLOROPHENOL  
4100U 2,4,5-TRICHLOROPHENOL  
4100U 2,4,6-TRICHLOROPHENOL  
4100U 2,4-DICHLOROPHENOL  
4100U 2,4-DIMETHYLPHENOL  
8200U 2,4-DINITROPHENOL  
4100U 2,4-DINITROTOLUENE  
4100U 2,6-DINITROTOLUENE  
4100U 2-CHLORONAPHTHALENE  
4100U 2-CHLOROPHENOL  
8200U 2-METHYL-4,6-DINITROPHENOL  
4100U 2-METHYLNAPHTHALENE  
4100U 2-METHYLPHENOL  
4100U 2-NITROANILINE  
4100U 2-NITROPHENOL  
4100U 3,3'-DICHLOROBENZIDINE  
4100U 3-NITROANILINE  
4100U 4-BROMOPHENYL PHENYL ETHER  
4100U 4-CHLORO-3-METHYLPHENOL  
4100U 4-CHLOROANILINE  
4100U 4-CHLOROPHENYL PHENYL ETHER  
4100U 4-NITROANILINE  
8200U 4-NITROPHENOL  
4100U ACENAPHTHENE  
4100U ACENAPHTHYLENE  
4100U ANTHRACENE  
4100U BENZO(A)ANTHRACENE  
4100U BENZO(B AND/OR K) FLUORANTHENE

4100U BENZO(GHI)PERYLENE  
4100U BENZO-A-PYRENE  
4100U BENZYL BUTYL PHTHALATE  
4100U BIS(2-CHLOROETHOXY) METHANE  
4100U BIS(2-CHLOROETHYL) ETHER  
4100U BIS(2-ETHYLHEXYL) PHTHALATE  
4100U CARBAZOLE  
4100U CHRYSENE  
4100U DI-N-BUTYLPHTHALATE  
4100U DI-N-OCTYLPHTHALATE  
4100U DIBENZO(A,H)ANTHRACENE  
4100U DIBENZOFURAN  
4100U DIETHYL PHTHALATE  
4100U DIMETHYL PHTHALATE  
4100U FLUORANTHENE  
4100U FLUORENE  
4100U HEXACHLOROBENZENE (HCB)  
4100U HEXACHLOROBUTADIENE  
4100U HEXACHLOROCYCLOPENTADIENE (HCCP)  
4100U HEXACHLOROETHANE  
4100U INDENO (1,2,3-CD) PYRENE  
4100U ISOPHORONE  
4100U N-NITROSODI-N-PROPYLAMINE  
4100U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
4100U NAPHTHALENE  
4100U NITROBENZENE  
8200U PENTACHLOROPHENOL  
4100U PHENANTHRENE  
4100U PHENOL  
4100U PYRENE  
6.1 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



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 PURGEABLE ORGANICS DATA REPORT  
 \*\*\*  
 \*\* PROJECT NO. 96-0002 SAMPLE NO. 177  
 \*\* SOURCE: NAS PENSACOLA  
 \*\* STATION ID: SF-T35-001  
 \*\*\*  
 SAMPLE AND ANALYSIS JAGEMENT SYSTEM  
 EPA-REGION IV ESU, ATHENS, GA.  
 12/04/95  
 PROG ELEM: SSF COLLECTED BY: J VAIL  
 CITY: PENSACOLA ST: FL  
 COLLECTION START: 10/23/95 1300 STOP: 00/00/00  
 \*\*\*  
 UG/KG  
 ANALYTICAL RESULTS  
 UG/KG ANALYTICAL RESULTS

49U	CHLOROMETHANE	49U	CIS-1,3-DICHLOROPROPENE
49U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
49U	BROMOMETHANE	49U	TOLUENE
49U	CHLOROETHANE	49U	TRANS-1,3-DICHLOROPROPENE
49U	TRICHLOROFLUOROMETHANE	49U	1,1,2-TRICHLOROETHANE
49U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	49U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
490U	ACETONE	49U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
49U	METHYLENE CHLORIDE	49U	DIBROMOCHLOROMETHANE
49U	TRANS-1,2-DICHLOROETHENE	49U	CHLOROBENZENE
49U	1,1-DICHLOROETHANE	49U	1,1,1,2-TETRACHLOROETHANE
49U	CIS-1,2-DICHLOROETHENE	49U	ETHYL BENZENE
49U	2,2-DICHLOROPROPANE	49U	(M- AND/OR P-) XYLENE
490U	METHYL ETHYL KETONE	49U	O-XYLENE
49U	BROMOCHLOROMETHANE	49U	STYRENE
49U	CHLOROFORM	49U	BROMOFORM
49U	1,1,1-TRICHLOROETHANE	49U	BROMOBENZENE
49U	1,1-DICHLOROPROPENE	49U	1,1,2,2-TETRACHLOROETHANE
49U	CARBON TETRACHLORIDE	49U	1,2,3-TRICHLOROPROPANE
49U	1,2-DICHLOROETHANE	49U	O-CHLOROTOLUENE
49U	BENZENE	49U	P-CHLOROTOLUENE
49U	TRICHLOROETHENE (TRICHLOROETHYLENE)	49U	1,3-DICHLOROBENZENE
49U	1,2-DICHLOROPROPANE	49U	1,4-DICHLOROBENZENE
49U	DIBROMOMETHANE	49U	1,2-DICHLOROBENZENE
49U	BROMODICHLOROMETHANE	6.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
 \*\*\*REMARKS\*\*\*  
 \*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 188 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T36-001  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1610 STOP: 00/00/00

ANALYTICAL RESULTS

MG/KG

ANALYTICAL RESULTS

1.00 SILVER  
3.00 ARSENIC  
NA BORON  
30 BARIUM  
0.50U BERYLLIUM  
2.0 CADMIUM  
1.00 COBALT  
30 CHROMIUM  
11 COPPER  
1.00 MOLYBDENUM  
4.1 NICKEL  
240 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
4.00 TIN  
12 STRONTIUM  
5.00 TELLURIUM  
56 TITANIUM  
100 THALLIUM  
4.1 VANADIUM  
1.8 YTTRIUM  
98 ZINC  
NA ZIRCONIUM  
0.08 MERCURY  
2800 ALUMINUM  
79 MANGANESE

1900 CALCIUM  
350 MAGNESIUM  
2100 IRON  
1000 SODIUM  
2000 POTASSIUM  
4 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS GEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 188 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\*\* STATION ID: SF-T36-001 COLLECTION START: 10/23/95 1610 STOP: 00/00/00 \*\*\*  
\*\*\*

RESULTS UNITS PARAMETER  
9.7 MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 188 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T36-001  
\*\*  
\*\*\* ANALYTICAL RESULTS  
\*\*\* ANALYTICAL RESULTS  
\*\*\* ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
50U ALDRIN		500U PCB-1232 (AROCOR 1232)	
50U HEPTACHLOR		500U PCB-1248 (AROCOR 1248)	
50U HEPTACHLOR EPOXIDE		500U PCB-1260 (AROCOR 1260)	
50U ALPHA-BHC		500U PCB-1016 (AROCOR 1016)	
50U BETA-BHC		3000U TOXAPHENE	
50U GAMMA-BHC (LINDANE)		-- CHLORDENE /2	
50U DELTA-BHC		-- ALPHA-CHLORDENE /2	
50U ENDOSULFAN I (ALPHA)		-- BETA CHLORDENE /2	
50U DIELDRIN		-- GAMMA-CHLORDENE /2	
50U 4,4'-DDT (P,P'-DDT)		-- TRANS-NONACHLOR /2	
46 4,4'-DDE (P,P'-DDE)		-- ALPHA-CHLORDANE /2	
50U 4,4'-DDD (P,P'-DDD)		-- CIS-NONACHLOR /2	
50U ENDRIN		-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2	
50U ENDOSULFAN II (BETA)		200U METHOXYCHLOR	
50U ENDOSULFAN SULFATE		50U ENDRIN KETONE	
200U CHLORDANE (TECH. MIXTURE) /1		4.6 PERCENT MOISTURE	
500U PCB-1242 (AROCOR 1242)			
500U PCB-1254 (AROCOR 1254)			
500U PCB-1221 (AROCOR 1221)			

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS  
EPA-REGION IV ESD, ATHENS, GA.

PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T36-001

168  
SAMPLE TYPE: SOIL

PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/23/95 1610

COLLECTED BY: D HUNTER  
ST: FL  
STOP: 00/00/00

11, 16/95

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UG/KG  
ANALYTICAL RESULTS

UG/KG  
ANALYTICAL RESULTS

4000U	(3-AND/OR 4-) METHYLPHENOL	4000U	BENZO (GHI) PERYLENE
4000U	1,2,4-TRICHLOROBENZENE	4000U	BENZO-A-PYRENE
4000U	2,2'-CHLOROISOPROPYLETHER	4000U	BENZYL BUTYL PHTHALATE
4000U	2,3,4,6-TETRACHLOROPHENOL	4000U	BIS (2-CHLOROETHOXY) METHANE
4000U	2,4,5-TRICHLOROPHENOL	4000U	BIS (2-CHLOROETHYL) ETHER
4000U	2,4,6-TRICHLOROPHENOL	4000U	BIS (2-ETHYLHEXYL) PHTHALATE
4000U	2,4-DICHLOROPHENOL	4000U	CARBAZOLE
4000U	2,4-DIMETHYLPHENOL	4000U	CHRYSENE
7900U	2,4-DINITROPHENOL	4000U	DI-N-BUTYLPHTHALATE
4000U	2,4-DINITROTOLUENE	4000U	DI-N-OCTYLPHTHALATE
4000U	2,6-DINITROTOLUENE	4000U	DIBENZO (A,H) ANTHRACENE
4000U	2-CHLORONAPHTHALENE	4000U	DIBENZOFURAN
4000U	2-CHLOROPHENOL	4000U	DIETHYL PHTHALATE
7900U	2-METHYL-4,6-DINITROPHENOL	4000U	DIMETHYL PHTHALATE
4000U	2-METHYLNAPHTHALENE	4000U	FLUORANTHENE
4000U	2-METHYLPHENOL	4000U	FLUORENE
4000U	2-NITROANILINE	4000U	HEXACHLOROBENZENE (HCB)
4000U	2-NITROPHENOL	4000U	HEXACHLOROBUTADIENE
4000U	3,3'-DICHLOROBENZIDINE	4000U	HEXACHLOROCYCLOPENTADIENE (HCCP)
4000U	3-NITROANILINE	4000U	HEXACHLOROETHANE
4000U	4-BROMOPHENYL PHENYL ETHER	4000U	INDENO (1,2,3-CD) PYRENE
4000U	4-CHLORO-3-METHYLPHENOL	4000U	ISOPHORONE
4000U	4-CHLOROANILINE	4000U	N-NITROSODI-N-PROPYLAMINE
4000U	4-CHLOROPHENYL PHENYL ETHER	4000U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4000U	4-NITROANILINE	4000U	NAPHTHALENE
7900U	4-NITROPHENOL	4000U	NITROBENZENE
4000U	ACENAPHTHENE	7900U	PENTACHLOROPHENOL
4000U	ACENAPHTHYLENE	4000U	PHENANTHRENE
4000U	ANTHRACENE	4000U	PHENOL
4000U	BENZO (A) ANTHRACENE	4000U	PYRENE
4000U	BENZO (B AND/OR K) FLUORANTHENE	4.6	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 188 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SF-T36-001 COLLECTION START: 10/23/95 1610 STOP: 00/00/00  
\*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
87U	CHLOROMETHANE	87U	CIS-1,3-DICHLOROPROPENE
87U	VINYL CHLORIDE	220U	METHYL ISOBUTYL KETONE
87U	BROMOMETHANE	13J	TOLUENE
87U	CHLOROETHANE	87U	TRANS-1,3-DICHLOROPROPENE
87U	TRICHLOROFLUOROMETHANE	87U	1,1,2-TRICHLOROETHANE
87U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	87U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
870U	ACETONE	87U	1,3-DICHLOROPROPANE
220U	CARBON DISULFIDE	220U	METHYL BUTYL KETONE
87U	METHYLENE CHLORIDE	87U	DIBROMOCHLOROMETHANE
87U	TRANS-1,2-DICHLOROETHENE	87U	CHLOROBENZENE
87U	1,1-DICHLOROETHANE	87U	1,1,1,2-TETRACHLOROETHANE
87U	CIS-1,2-DICHLOROETHENE	87U	ETHYL BENZENE
87U	2,2-DICHLOROPROPANE	87U	(M- AND/OR P-) XYLENE
870U	METHYL ETHYL KETONE	87U	O-XYLENE
87U	BROMOCHLOROMETHANE	87U	STYRENE
87U	CHLOROFORM	87U	BROMOFORM
87U	1,1,1-TRICHLOROETHANE	87U	BROMOBENZENE
87U	1,1-DICHLOROPROPENE	87U	1,1,2,2-TETRACHLOROETHANE
87U	CARBON TETRACHLORIDE	87U	1,2,3-TRICHLOROPROPANE
87U	1,2-DICHLOROETHANE	87U	O-CHLOROTOLUENE
87U	BENZENE	87U	P-CHLOROTOLUENE
87U	TRICHLOROETHENE (TRICHLOROETHYLENE)	87U	1,3-DICHLOROBENZENE
87U	1,2-DICHLOROPROPANE	87U	1,4-DICHLOROBENZENE
87U	DIBROMOMETHANE	87U	1,2-DICHLOROBENZENE
87U	BROMODICHLOROMETHANE	4.6	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS I JEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12. 3/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 189 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T37-001

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1620 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

SILVER 480 CALCIUM  
3.00 ARSENIC 150 MAGNESIUM  
NA 3200 IRON  
13 BARIUM 1000 SODIUM  
0.500 BERYLLIUM 2000 POTASSIUM  
0.500 CADMIUM 6 PERCENT MOISTURE  
1.1 COBALT  
12 CHROMIUM  
18 COPPER  
1.00 MOLYBDENUM  
2.4 NICKEL  
80 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
2.50 TIN  
3.9 STRONTIUM  
5.00 TELLURIUM  
80 TITANIUM  
100 THALLIUM  
10 VANADIUM  
2.2 YTTRIUM  
19 ZINC  
NA ZIRCONIUM  
0.050 MERCURY  
6700 ALUMINUM  
100 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BLDG, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 189 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SP-T37-001  
\*\*  
\*\*\* ANALYTICAL RESULTS  
\*\*  
\*\*\* ANALYTICAL RESULTS  
\*\*

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
50U ALDRIN		500U PCB-1232 (AROCCLOR 1232)	
50U HEPTACHLOR EPOXIDE		500U PCB-1248 (AROCCLOR 1248)	
50U ALPHA-BHC		500U PCB-1260 (AROCCLOR 1260)	
50U BETA-BHC		500U PCB-1016 (AROCCLOR 1016)	
50U GAMMA-BHC (LINDANE)		3000U TOXAPHENE	
50U DELTA-BHC		-- CHLORDENE /2	
50U ENDOSULFAN I (ALPHA)		-- ALPHA-CHLORDENE /2	
84 DIELDRIN		-- BETA-CHLORDENE /2	
45 4,4'-DDT (P,P'-DDT)		-- GAMMA-CHLORDENE /2	
100 4,4'-DDE (P,P'-DDE)		-- GAMMA-CHLORDANE /2	
50U 4,4'-DDD (P,P'-DDD)		-- TRANS-NONACHLOR /2	
50U ENDRIN		-- ALPHA-CHLORDANE /2	
50U ENDOSULFAN II (BETA)		-- CIS-NONACHLOR /2	
50U ENDOSULFAN SULFATE		-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2	
200U CHLORDANE (TECH. MIXTURE) /1		200U METHOXYCHLOR	
500U PCB-1242 (AROCCLOR 1242)		50U ENDRIN KETONE	
500U PCB-1254 (AROCCLOR 1254)		6.1 PERCENT MOISTURE	
500U PCB-1221 (AROCCLOR 1221)			

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
BPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 189 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SF-T37-001 COLLECTION START: 10/23/95 1620 STOP: 00/00/00  
\*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
4200U	(3-AND/OR 4-) METHYLPHENOL	4200U	BENZO (GHI) PERYLENE
4200U	1,2,4-TRICHLOROBENZENE	4200U	BENZO-A-PYRENE
4200U	2,2'-CHLOROISOPROPYLETHER	4200U	BENZYL BUTYL PHTHALATE
4200U	2,3,4,6-TETRACHLOROPHENOL	4200U	BIS (2-CHLOROETHOXY) METHANE
4200U	2,4,5-TRICHLOROPHENOL	4200U	BIS (2-CHLOROETHYL) ETHER
4200U	2,4,6-TRICHLOROPHENOL	4200U	BIS (2-ETHYLHEXYL) PHTHALATE
4200U	2,4-DICHLOROPHENOL	4200U	CARBAZOLE
4200U	2,4-DIMETHYLPHENOL	4200U	CHRYSENE
8300U	2,4-DINITROPHENOL	4200U	DI-N-BUTYLPHTHALATE
4200U	2,4-DINITROTOLUENE	4200U	DI-N-OCTYLPHTHALATE
4200U	2,6-DINITROTOLUENE	4200U	DIBENZO (A,H) ANTHRACENE
4200U	2-CHLORONAPHTHALENE	4200U	DIBENZOFURAN
4200U	2-CHLOROPHENOL	4200U	DIETHYL PHTHALATE
8300U	2-METHYL-4,6-DINITROPHENOL	4200U	DIMETHYL PHTHALATE
4200U	2-METHYLNAPHTHALENE	4200U	FLUORANTHENE
4200U	2-METHYLPHENOL	4200U	FLUORENE
4200U	2-NITROANILINE	4200U	HEXACHLOROBENZENE (HCB)
4200U	2-NITROPHENOL	4200U	HEXACHLOROBUTADIENE
4200U	3,3'-DICHLOROBENZIDINE	4200U	HEXACHLOROCYCLOPENTADIENE (HCCP)
4200U	3-NITROANILINE	4200U	HEXACHLOROETHANE
4200U	4-BROMOPHENYL PHENYL ETHER	4200U	INDENO (1,2,3-CD) PYRENE
4200U	4-CHLORO-3-METHYLPHENOL	4200U	ISOPHORONE
4200U	4-CHLOROANILINE	4200U	N-NITROSODI-N-PROPYLAMINE
4200U	4-CHLOROPHENYL PHENYL ETHER	4200U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4200U	4-NITROANILINE	4200U	NAPHTHALENE
8300U	4-NITROPHENOL	4200U	NITROBENZENE
4200U	ACENAPHTHENE	8300U	PENTACHLOROPHENOL
4200U	ACENAPHTHYLENE	4200U	PHENANTHRENE
4200U	ANTHRACENE	4200U	PHENOL
4200U	BENZO (A) ANTHRACENE	4200U	PYRENE
4200U	BENZO (B AND/OR K) FLUORANTHENE	6.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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**12/04/95**

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**	PROJECT NO.	96-0002	SAMPLE NO.	189	SAMPLE TYPE:	SOIL	PROG ELEM:	SSF	COLLECTED BY:	D HUNTER	**	
**	SOURCE:	NAS PENSACOLA					CITY:	PENSACOLA	ST:	FL	**	
**	STATION ID:	SF-T37-001					COLLECTION START:	10/23/95	1620	STOP:	00/00/00	**

## ANALYTICAL RESULTS

89U	CHLOROMETHANE	89U	CIS-1,3-DICHLOROPROPENE
89U	VINYL CHLORIDE	220U	METHYL ISOBUTYL KETONE
89U	BROMOMETHANE	89U	TOLUENE
89U	CHLOROETHANE	89U	TRANS-1,3-DICHLOROPROPENE
89U	TRICHLOROFLUOROMETHANE	89U	1,1,2-TRICHLOROETHANE
89U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	89U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
890U	ACETONE	89U	1,3-DICHLOROPROPANE
220U	CARBON DISULFIDE	220U	METHYL BUTYL KETONE
89U	METHYLENE CHLORIDE	89U	DIBROMOCHLOROMETHANE
89U	TRANS-1,2-DICHLOROETHENE	89U	CHLOROBENZENE
89U	1,1-DICHLOROETHANE	89U	1,1,1,2-TETRACHLOROETHANE
89U	CIS-1,2-DICHLOROETHENE	89U	ETHYL BENZENE
89U	2,2-DICHLOROPROPANE	89U	(M- AND/OR P-) XYLENE
890U	METHYL ETHYL KETONE	89U	O-XYLENE
89U	BROMOCHLOROMETHANE	89U	STYRENE
89U	CHLOROFORM	89U	BROMOFORM
89U	1,1,1-TRICHLOROETHANE	89U	BROMOBENZENE
89U	1,1-DICHLOROPROPENE	89U	1,1,2,2-TETRACHLOROETHANE
89U	CARBON TETRACHLORIDE	89U	1,2,3-TRICHLOROPROPANE
89U	1,2-DICHLOROETHANE	89U	O-CHLOROTOLUENE
89U	BENZENE	89U	P-CHLOROTOLUENE
89U	TRICHLOROETHENE(TRICHLOROETHYLENE)	89U	1,3-DICHLOROBENZENE
89U	1,2-DICHLOROPROPANE	89U	1,4-DICHLOROBENZENE
89U	DIBROMOMETHANE	89U	1,2-DICHLOROBENZENE
89U	BROMODICHLOROMETHANE	89U	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS: IAGEMENT SYSTEM  
EPA-REGION IV B, ATHENS, GA. /15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 107 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T01-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1120 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
2.00 SILVER	4400 CALCIUM
5.1 ARSENIC	260 MAGNESIUM
NA BORON	10000 IRON
20 BARIUM	2000 SODIUM
1.00 BERYLLIUM	4000 POTASSIUM
1.00 CADMIUM	5 PERCENT MOISTURE
2.00 COBALT	
17 CHROMIUM	
9.8 COPPER	
2.1 MOLYBDENUM	
4.00 NICKEL	
58 LEAD	
6.00 ANTIMONY	
8.00 SELENIUM	
5.00 TIN	
16 STRONTIUM	
100 TELLURIUM	
100 TITANIUM	
200 THALLIUM	
29 VANADIUM	
3.5 YTTRIUM	
35 ZINC	
NA ZIRCONIUM	
0.04U MERCURY	
17000 ALUMINUM	
210 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 107 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: P SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SP-T01-001 COLLECTION START: 10/17/95 1120 STOP: 00/00/00  
\*\*

UG/KG ANALYTICAL RESULTS

88U CHLOROMETHANE  
88U VINYL CHLORIDE  
88U BROMOMETHANE  
88U CHLOROETHANE  
88U TRICHLOROFLUOROMETHANE  
88U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)  
88U ACETONE  
220U CARBON DISULFIDE  
88U METHYLENE CHLORIDE  
88U TRANS-1,2-DICHLOROETHENE  
88U 1,1-DICHLOROETHANE  
88U CIS-1,2-DICHLOROETHENE  
88U 2,2-DICHLOROPROPANE  
88U METHYL ETHYL KETONE  
88U BROMOCHLOROMETHANE  
88U CHLOROFORM  
88U 1,1,1-TRICHLOROETHANE  
88U 1,1-DICHLOROPROPENE  
88U CARBON TETRACHLORIDE  
88U 1,2-DICHLOROETHANE  
88U BENZENE  
88U TRICHLOROETHENE (TRICHLOROETHYLENE)  
88U 1,2-DICHLOROPROPANE  
88U DIBROMOMETHANE  
88U BROMODICHLOROMETHANE

UG/KG ANALYTICAL RESULTS

88U CIS-1,3-DICHLOROPROPENE  
220U METHYL ISOBUTYL KETONE  
88U TOLUENE  
88U TRANS-1,3-DICHLOROPROPENE  
88U 1,1,2-TRICHLOROETHANE  
88U TETRACHLOROETHENE(TETRACHLOROETHYLENE)  
88U 1,3-DICHLOROPROPANE  
220U METHYL BUTYL KETONE  
88U DIBROMOCHLOROMETHANE  
88U CHLOROBENZENE  
88U 1,1,1,2-TETRACHLOROETHANE  
88U ETHYL BENZENE  
88U (M- AND/OR P-) XYLENE  
88U O-XYLENE  
88U STYRENE  
88U BROMOFORM  
88U BROMOBENZENE  
88U 1,1,2,2-TETRACHLOROETHANE  
88U 1,2,3-TRICHLOROPROPANE  
88U O-CHLOROTOLUENE  
88U P-CHLOROTOLUENE  
88U 1,3-DICHLOROBENZENE  
88U 1,4-DICHLOROBENZENE  
88U 1,2-DICHLOROBENZENE  
5.5 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS  
EPA-REGION IV Es. ATHENS, GA.

16/95

PURGEABLE ORGANICS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 121 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T15-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1620 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
86U	CHLOROMETHANE	86U	CIS-1,3-DICHLOROPROPENE
86U	VINYL CHLORIDE	220U	METHYL ISOBUTYL KETONE
86U	BROMOMETHANE	86U	TOLUENE
86U	CHLOROETHANE	86U	TRANS-1,3-DICHLOROPROPENE
86U	TRICHLOROFLUOROMETHANE	86U	1,1,2-TRICHLOROETHANE
86U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	86U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
860U	ACETONE	86U	1,3-DICHLOROPROPANE
220U	CARBON DISULFIDE	220U	METHYL BUTYL KETONE
86U	METHYLENE CHLORIDE	86U	DIBROMOCHLOROMETHANE
86U	TRANS-1,2-DICHLOROETHENE	86U	CHLOROBENZENE
86U	1,1-DICHLOROETHANE	86U	1,1,1,2-TETRACHLOROETHANE
86U	CIS-1,2-DICHLOROETHENE	86U	ETHYL BENZENE
86U	2,2-DICHLOROPROPANE	86U	(M- AND/OR P-) XYLENE
860U	METHYL ETHYL KETONE	86U	O-XYLENE
86U	BROMOCHLOROMETHANE	86U	STYRENE
86U	CHLOROFORM	86U	BROMOFORM
86U	1,1,1-TRICHLOROETHANE	86U	BROMOBENZENE
86U	1,1-DICHLOROPROPENE	86U	1,1,2,2-TETRACHLOROETHANE
86U	CARBON TETRACHLORIDE	86U	1,2,3-TRICHLOROPROPANE
86U	1,2-DICHLOROETHANE	86U	O-CHLOROTOLUENE
86U	BENZENE	86U	P-CHLOROTOLUENE
86U	TRICHLOROETHENE (TRICHLOROETHYLENE)	86U	1,3-DICHLOROBENZENE
86U	1,2-DICHLOROPROPANE	86U	1,4-DICHLOROBENZENE
86U	DIBROMOMETHANE	86U	1,2-DICHLOROBENZENE
86U	BROMODICHLOROMETHANE	3.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 131 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T16-001  
\*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0840 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
1.0U SILVER	9700 CALCIUM
5.6 ARSENIC	430 MAGNESIUM
NA BORON	7500 IRON
33 BARIUM	320 SODIUM
0.50U BERYLLIUM	220 POTASSIUM
1.5 CADMIUM	5 PERCENT MOISTURE
1.0U COBALT	
11 CHROMIUM	
67 COPPER	
1.0U MOLYBDENUM	
4.2 NICKEL	
170 LEAD	
3.0U ANTIMONY	
4.0U SELENIUM	
10U TIN	
27 STRONTIUM	
5.0U TELLURIUM	
92 TITANIUM	
10U THALLIUM	
16 VANADIUM	
2.6 YTTRIUM	
120 ZINC	
NA ZIRCONIUM	
0.14 MERCURY	
10000 ALUMINUM	
110 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 112 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: SF-T06-001 COLLECTION START: 10/18/85 0800 STOP: 00/00/00 \*\*  
\*\*\* \*\*

ANALYTICAL RESULTS UG/KG

N PETROLEUM PRODUCT

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS AGEMENT SYSTEM  
EPA-REGION IV B Athens, GA.

15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 112 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T06-001  
PROG ELEM: SSP COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 0800 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
1.00 SILVER	3600 CALCIUM
3.00 ARSENIC	540 MAGNESIUM
NA BORON	1800 IRON
13 BARIUM	190 SODIUM
0.50U BERYLLIUM	200U POTASSIUM
0.50U CADMIUM	2 PERCENT MOISTURE
1.00 COBALT	
4.8 CHROMIUM	
7.0 COPPER	
1.00 MOLYBDENUM	
2.0U NICKEL	
74 LEAD	
3.0U ANTIMONY	
4.0U SELENIUM	
3.5U TIN	
10 STRONTIUM	
5.0U TELLURIUM	
40 TITANIUM	
10U THALLIUM	
3.2 VANADIUM	
1.1 YTTRIUM	
37 ZINC	
NA ZIRCONIUM	
0.05U MERCURY	
1700 ALUMINUM	
50 MANGANESE	

REMARKS

REMARKS

FOOTNOTES  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



## 11/16/95

11/16/95

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\*\*\*REMARKS\*\*\*

## MATERIAL

**SAMPLE AND ANALYSIS I JEMENT SYSTEM  
BPA-REGION IV BSD, ATHENS, GA.**

12/18/95

**SPECIFIED ANALYSIS DATA REPORT**

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***
** PROJECT NO. 96-0002 SAMPLE NO. 109 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SF-T03-001
**
** PROG ELEM: SSF COLLECTED BY: F SLOAN
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/17/95 1500 STOP: 00/00/00
**

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RESULTS	UNITS	PARAMETER
0.21U	MG/KG	CYANIDE

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN				
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 109 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T03-001  
\*\*\* PROG ELEM: SSP COLLECTED BY: P SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/17/95 1500 STOP: 00/00/00

\*\*\* UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS

50U ALDRIN	500U PCB-1232 (AROCOR 1232)
50U HEPTACHLOR	500U PCB-1248 (AROCOR 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROCOR 1260)
50U ALPHA-BHC	500U PCB-1016 (AROCOR 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
50U DELTA-BHC	-- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	-- BETA-CHLORDENE /2
20J DIELDRIN	-- GAMMA-CHLORDENE /2
50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
10J 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
50U ENDRIN	-- CIS-NONACHLOR /2
50U ENDOSULFAN II (BETA)	-- OXYCHLORDANE (OCTACHLOROPOXIDE) /2
50U ENDOSULFAN SULFATE	200U METHOXYCHLOR
200U CHLORDANE (TECH. MIXTURE) /1	50U ENDRIN KETONE
500U PCB-1242 (AROCOR 1242)	5.2 PERCENT MOISTURE
500U PCB-1254 (AROCOR 1254)	
500U PCB-1221 (AROCOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSA, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 121 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T15-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1620 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

50U ALDRIN	500U PCB-1232 (AROCOR 1232)
50U HEPTACHLOR	500U PCB-1248 (AROCOR 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROCOR 1260)
50U ALPHA-BHC	500U PCB-1016 (AROCOR 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
50U DELTA-BHC	-- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	-- BETA CHLORDENE /2
40J DIELDRIN	-- GAMMA-CHLORDENE /2
50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
5.8J 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
50U ENDRIN	-- CIS-NONACHLOR /2
50U ENDOSULFAN II (BETA)	-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
50U ENDOSULFAN SULFATE	200U METHOXYCHLOR
200U CHLORDANE (TECH. MIXTURE)	50U ENDRIN KETONE
500U PCB-1242 (AROCOR 1242)	3.2 PERCENT MOISTURE
500U PCB-1254 (AROCOR 1254)	
500U PCB-1221 (AROCOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.









SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
BPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 121 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T15-001  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1620 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS EPA-REGION IV ESD, ATHENS, GA. GEMENT SYSTEM

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 119 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T13-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1345 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
38000	(3- AND/OR 4-) METHYLPHENOL	38000	BENZO (GHI) PERYLENE
38000	1,2,4-TRICHLOROBENZENE	38000	BENZO-A-PYRENE
38000	2,2'-CHLOROISOPROPYLEETHER	38000	BENZYL BUTYL PHTHALATE
38000	2,3,4,6-TETRACHLOROPHENOL	38000	BIS(2-CHLOROETHOXY) METHANE
38000	2,4,5-TRICHLOROPHENOL	38000	BIS(2-CHLOROETHYL) ETHER
38000	2,4,6-TRICHLOROPHENOL	38000	BIS(2-ETHYLHEXYL) PHTHALATE
38000	2,4-DICHLOROPHENOL	38000	CARBAZOLE
38000	2,4-DIMETHYLPHENOL	38000	CHRYSENE
75000	2,4-DINITROPHENOL	38000	DI-N-BUTYL PHTHALATE
38000	2,4-DINITROTOLUENE	38000	DI-N-OCTYL PHTHALATE
38000	2,6-DINITROTOLUENE	38000	DIBENZO (A,H) ANTHRACENE
38000	2-CHLORONAPHTHALENE	38000	DIBENZOFURAN
38000	2-CHLOROPHENOL	38000	DIETHYL PHTHALATE
75000	2-METHYL-4,6-DINITROPHENOL	38000	DIMETHYL PHTHALATE
38000	2-METHYLNAPHTHALENE	38000	FLUORANTHENE
38000	2-NITROPHENOL	38000	FLUORENE
38000	2-NITROANILINE	38000	HEXACHLOROBENZENE (HCB)
38000	2-NITROPHENOL	38000	HEXACHLOROBUTADIENE
38000	3,3'-DICHLOROBENZIDINE	38000	HEXACHLOROCYCLOPENTADIENE (HCCP)
38000	3-NITROANILINE	38000	HEXACHLOROETHANE
38000	4-BROMOPHENYL PHENYL ETHER	38000	INDENO (1,2,3-CD) PYRENE
38000	4-CHLORO-3-METHYLPHENOL	38000	ISOPHORONE
38000	4-CHLOROANILINE	38000	N-NITROSODI-N-PROPYLAMINE
38000	4-CHLOROPHENYL PHENYL ETHER	38000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
38000	4-NITROANILINE	38000	NAPHTHALENE
75000	4-NITROPHENOL	38000	NITROBENZENE
38000	ACENAPHTHENE	75000	PENTACHLOROPHENOL
38000	ACENAPHTHYLENE	38000	PHENANTHRENE
38000	ANTHRACENE	38000	PHENOL
38000	BENZO (A) ANTHRACENE	38000	PYRENE
38000	BENZO (B AND/OR K) FLUORANTHENE	8.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

**12/18/95**

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 119 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T13-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1345 STOP: 00/00/00

[illegible]

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN				
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV RSD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 119 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T13-001  
\*\*  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* CITY: PENSACOLA ST: FL  
\*\* COLLECTION START: 10/18/85 1345 STOP: 00/00/00  
\*\*

UG/KG ANALYTICAL RESULTS

91UJ CHLOROMETHANE  
91UJ VINYL CHLORIDE  
91UJ BROMOMETHANE  
91UJ CHLOROETHANE  
91UJ TRICHLOROFLUOROMETHANE  
91UJ 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
910UJ ACETONE  
230UJ CARBON DISULFIDE  
91UJ METHYLENE CHLORIDE  
91UJ TRANS-1,2-DICHLOROETHENE  
91UJ 1,1-DICHLOROETHANE  
91UJ CIS-1,2-DICHLOROETHENE  
91UJ 2,2-DICHLOROPROPANE  
910UJ METHYL ETHYL KETONE  
91UJ BROMOCHLOROMETHANE  
91UJ CHLOROFORM  
91UJ 1,1,1-TRICHLOROETHANE  
91UJ 1,1-DICHLOROPROPENE  
91UJ CARBON TETRACHLORIDE  
91UJ 1,2-DICHLOROETHANE  
91UJ BENZENE  
91UJ TRICHLOROETHENE (TRICHLOROETHYLENE)  
91UJ 1,2-DICHLOROPROPANE  
91UJ DIBROMOMETHANE  
91UJ BROMODICHLOROMETHANE

UG/KG ANALYTICAL RESULTS  
91UJ CIS-1,3-DICHLOROPROPENE  
230UJ METHYL ISOBUTYL KETONE  
91UJ TOLUENE  
91UJ TRANS-1,3-DICHLOROPROPENE  
91UJ 1,1,2-TRICHLOROETHANE  
91UJ TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
91UJ 1,3-DICHLOROPROPANE  
230UJ METHYL BUTYL KETONE  
91UJ DIBROMOCHLOROMETHANE  
91UJ CHLOROBENZENE  
91UJ 1,1,1,2-TETRACHLOROETHANE  
91UJ ETHYL BENZENE  
91UJ (M- AND/OR P-) XYLENE  
91UJ O-XYLENE  
91UJ STYRENE  
91UJ BROMOFORM  
91UJ BROMOBENZENE  
91UJ 1,1,2,2-TETRACHLOROETHANE  
91UJ 1,2,3-TRICHLOROPROPANE  
91UJ O-CHLOROTOLUENE  
91UJ P-CHLOROTOLUENE  
91UJ 1,3-DICHLOROBENZENE  
91UJ 1,4-DICHLOROBENZENE  
91UJ 1,2-DICHLOROBENZENE  
8.2 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV LABORATORY, ATHENS, GA.

10/18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 118 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T12-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1310 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.20U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 118 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T12-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1310 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

50U ALDRIN	500U PCB-1232 (AROCLO 1232)
50U HEPTACHLOR	500U PCB-1248 (AROCLO 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROCLO 1260)
50U ALPHA-BHC	500U PCB-1016 (AROCLO 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
50U DELTA-BHC	-- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	-- BETA-CHLORDENE /2
50U DIELDRIN	-- GAMMA-CHLORDANE /2
50U 4,4'-DDT (P,P'-DDT)	-- TRANS-NONACHLOR /2
50U 4,4'-DDE (P,P'-DDE)	-- ALPHA-CHLORDANE /2
50U 4,4'-DDD (P,P'-DDD)	-- CIS-NONACHLOR /2
50U ENDRIN	-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
50U ENDOSULFAN II (BETA)	-- METHOXYCHLOR
50U ENDOSULFAN SULFATE	200U ENDRIN KETONE
200U CHLORDANE (TECH. MIXTURE)	50U PERCENT MOISTURE
500U PCB-1242 (AROCLO 1242)	
500U PCB-1254 (AROCLO 1254)	
500U PCB-1221 (AROCLO 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 118 SAMPLE TYPE: SOIL

\*\* SOURCE: NAS PENSACOLA

\*\* STATION ID: SF-T12-001

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

COLLECTION START: 10/18/85 1310 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

3500U	(3-AND/OR 4-)METHYLPHENOL	3500U	BENZO(GHI)PERYLENE
3500U	1,2,4-TRICHLOROBENZENE	3500U	BENZO-A-PYRENE
3500U	2,2'-CHLOROISOPROPYLETHER	3500U	BENZYL BUTYL PHTHALATE
3500U	2,3,4,6-TETRACHLOROPHENOL	3500U	BIS(2-CHLOROETHOXY) METHANE
3500U	2,4,5-TRICHLOROPHENOL	3500U	BIS(2-CHLOROETHYL) ETHER
3500U	2,4,6-TRICHLOROPHENOL	3500U	BIS(2-ETHYLHEXYL) PHTHALATE
3500U	2,4-DICHLOROPHENOL	3500U	CARBAZOLE
3500U	2,4-DIMETHYLPHENOL	3500U	CHRYSENE
7100U	2,4-DINITROPHENOL	3500U	DI-N-BUTYLPHTHALATE
3500U	2,4-DINITROTOLUENE	3500U	DI-N-OCTYLPHTHALATE
3500U	2,6-DINITROTOLUENE	3500U	DIBENZO(A,H)ANTHRACENE
3500U	2-CHLORONAPHTHALENE	3500U	DIBENZOFURAN
3500U	2-CHLOROPHENOL	3500U	DIETHYL PHTHALATE
7100U	2-METHYL-4,6-DINITROPHENOL	3500U	DIMETHYL PHTHALATE
3500U	2-METHYLNAPHTHALENE	3500U	FLUORANTHENE
3500U	2-METHYLPHENOL	3500U	FLUORENE
3500U	2-NITROANILINE	3500U	HEXACHLOROBEN/ENE (HCB)
3500U	2-NITROPHENOL	3500U	HEXACHLOROBUTADIENE
3500U	3,3'-DICHLOROBENZIDINE	3500U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3500U	3-NITROANILINE	3500U	HEXACHLOROETHANE
3500U	4-BROMOPHENYL PHENYL ETHER	3500U	INDENO (1,2,3-CD) PYRENE
3500U	4-CHLORO-3-METHYLPHENOL	3500U	ISOPHORONE
3500U	4-CHLOROANILINE	3500U	N-NITROSODI-N PROPYLAMINE
3500U	4-CHLOROPHENYL PHENYL ETHER	3500U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3500U	4-NITROANILINE	3500U	NAPHTHALENE
7100U	4-NITROPHENOL	3500U	NITROBENZENE
3500U	ACENAPHTHENE	7100U	PENTACHLOROPHENOL
3500U	ACENAPHTHYLENE	3500U	PHENANTHRENE
3500U	ANTHRACENE	3500U	PHENOL
3500U	BENZO(A)ANTHRACENE	3500U	PYRENE
3500U	BENZO(B AND/OR K) FLUORANTHENE	2.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*J-ESTIMATED VALUE

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*NAI-INTERFERENCES

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 118 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T12-001  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1310 STOP: 00/00/00

ANALYTICAL RESULTS UG/KG

N PETROLEUM PRODUCT

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BOLD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 118 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: P SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: SF-T12-001 COLLECTION START: 10/18/85 1310 STOP: 00/00/00 \*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
51U	CHLOROMETHANE	51U	CIS-1,3-DICHLOROPROPENE
51U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
51U	BROMOMETHANE	51U	TOLUENE
51U	CHLOROETHANE	51U	TRANS-1,3-DICHLOROPROPENE
51U	TRICHLOROFLUOROMETHANE	51U	1,1,2-TRICHLOROETHANE
51U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	51U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
510U	ACETONE	51U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
51U	METHYLENE CHLORIDE	51U	DIBROMOCHLOROMETHANE
51U	TRANS-1,2-DICHLOROETHENE	51U	CHLOROBENZENE
51U	1,1-DICHLOROETHANE	51U	1,1,1,2-TETRACHLOROETHANE
51U	CIS-1,2-DICHLOROETHENE	51U	ETHYL BENZENE
51U	2,2-DICHLOROPROPANE	51U	(M- AND/OR P-) XYLENE
510U	METHYL ETHYL KETONE	51U	O-XYLENE
51U	BROMOCHLOROMETHANE	51U	STYRENE
51U	CHLOROFORM	51U	BROMOFORM
51U	1,1,1-TRICHLOROETHANE	51U	BROMOBENZENE
51U	1,1-DICHLOROPROPENE	51U	1,1,2,2-TETRACHLOROETHANE
51U	CARBON TETRACHLORIDE	51U	1,2,3-TRICHLOROPROPANE
51U	1,2-DICHLOROETHANE	51U	O-CHLOROTOLUENE
51U	BENZENE	51U	P-CHLOROTOLUENE
51U	TRICHLOROETHENE (TRICHLOROETHYLENE)	51U	1,3-DICHLOROBENZENE
51U	1,2-DICHLOROPROPANE	51U	1,4-DICHLOROBENZENE
51U	DIBROMOMETHANE	51U	1,2-DICHLOROBENZENE
51U	BROMODICHLOROMETHANE	2.4	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 118 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN \*\* \*\* \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\* \*\* \*\*  
\*\* STATION ID: SF-T12-001 COLLECTION START: 10/18/85 1310 STOP: 00/00/00 \*\* \*\* \*\*  
\*\* \*\* \*\* \*\*

ANALYTICAL RESULTS

MG/KG

ANALYTICAL RESULTS

1.0U SILVER 660 CALCIUM  
3.0U ARSENIC 200 MAGNESIUM  
NA BORON 2900 IRON  
18 BARIUM 100U SODIUM  
0.50U BERYLLIUM 200U POTASSIUM  
0.50U CADMIUM 2 PERCENT MOISTURE  
1.0U COBALT  
4.5 CHROMIUM  
7.4 COPPER  
1.0U MOLYBDENUM  
2.0U NICKEL  
46 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
4.5U TIN  
2.7 STRONTIUM  
5.0U TELLURIUM  
49 TITANIUM  
10U THALLIUM  
6.2 VANADIUM  
1.0U YTTRIUM  
55 ZINC  
NA ZIRCONIUM  
0.12 MERCURY  
3900 ALUMINUM  
31 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





## 12/18/95

\*\* PROJECT NO. 96-0002 SAMPLE NO. 117 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* STATION ID: SF-T11-001 CITY: PENSACOLA ST: FL  
\*\* COLLECTION START: 10/18/85 1015 STOP: 00/00/00

RESULTS	UNITS	PARAMETER
0.21U	MG/KG	CYANIDE

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002    SAMPLE NO. 117    SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SF-T11-001

SAMPLE AND ANALYSIS

EPA-REGION IV

ATHENS, GA.

NAGEMENT SYSTEM

PROG ELEM: SSF    COLLECTED BY: F SLOAN

CITY: PENSACOLA    ST: FL

COLLECTION START: 10/18/85 1015    STOP: 00/00/00

16/95

ANALYTICAL RESULTS	
UG/KG	UG/KG
44U CHLOROMETHANE	44U CIS-1,3-DICHLOROPROPENE
44U VINYL CHLORIDE	110U METHYL ISOBUTYL KETONE
44U BROMOMETHANE	44U TOLUENE
44U CHLOROETHANE	44U TRANS-1,3-DICHLOROPROPENE
44U TRICHLOROFLUOROMETHANE	44U 1,1,2-TRICHLOROETHANE
44U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	44U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
44U ACETONE	44U 1,3-DICHLOROPROPANE
110U CARBON DISULFIDE	110U METHYL BUTYL KETONE
44U METHYLENE CHLORIDE	44U DIBROMOCHLOROMETHANE
44U TRANS-1,2-DICHLOROETHENE	44U CHLOROBENZENE
44U 1,1-DICHLOROETHANE	44U 1,1,1,2-TETRACHLOROETHANE
44U CIS-1,2-DICHLOROETHENE	44U ETHYL BENZENE
44U 2,2-DICHLOROPROPANE	44U (M- AND/OR P-) XYLENE
44U METHYL ETHYL KETONE	44U O-XYLENE
44U BROMOCHLOROMETHANE	44U STYRENE
44U CHLOROFORM	44U BROMOFORM
44U 1,1,1-TRICHLOROETHANE	44U BROMOBENZENE
44U 1,1-DICHLOROPROPENE	44U 1,1,2,2-TETRACHLOROETHANE
44U CARBON TETRACHLORIDE	44U 1,2,3-TRICHLOROPROPANE
44U 1,2-DICHLOROETHANE	44U O-CHLOROTOLUENE
44U BENZENE	44U P-CHLOROTOLUENE
44U TRICHLOROETHENE (TRICHLOROETHYLENE)	44U 1,3-DICHLOROBENZENE
44U 1,2-DICHLOROPROPANE	44U 1,4-DICHLOROBENZENE
44U DIBROMOMETHANE	44U 1,2-DICHLOROBENZENE
44U BROMODICHLOROMETHANE	4.6 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE    \*NA-NOT ANALYZED    \*NAI-INTERFERENCES    \*J-ESTIMATED VALUE    \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN    \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 117 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T11-001  
\*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\*  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1015 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*\*\*\*

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

\*\*\*

3500U (3-AND/OR 4-) METHYLPHENOL  
3500U 1,2,4-TRICHLOROBENZENE  
3500U 2,2'-CHLOROISOPROPYLETHER  
3500U 2,3,4,6-TETRACHLOROPHENOL  
3500U 2,4,5-TRICHLOROPHENOL  
3500U 2,4,6-TRICHLOROPHENOL  
3500U 2,4-DICHLOROPHENOL  
3500U 2,4-DIMETHYLPHENOL  
7000U 2,4-DINITROPHENOL  
3500U 2,4-DINITROTOLUENE  
3500U 2,6-DINITROTOLUENE  
3500U 2-CHLORONAPHTHALENE  
3500U 2-CHLOROPHENOL  
7000U 2-METHYL-4,6-DINITROPHENOL  
3500U 2-METHYLNAPHTHALENE  
3500U 2-METHYLPHENOL  
3500U 2-NITROANILINE  
3500U 2-NITROPHENOL  
3500U 3,3'-DICHLOROBENZIDINE  
3500U 3-NITROANILINE  
3500U 4-BROMOPHENYL PHENYL ETHER  
3500U 4-CHLORO-3-METHYLPHENOL  
3500U 4-CHLOROANILINE  
3500U 4-CHLOROPHENYL PHENYL ETHER  
3500U 4-NITROANILINE  
7000U 4-NITROPHENOL  
3500U ACENAPHTHENE  
3500U ACENAPHTHYLENE  
3500U ANTHRACENE  
370J BENZO(A)ANTHRACENE  
670J BENZO(B AND/OR K)FLUORANTHENE

3500U BENZO(GHI)PERYLENE  
3500U BENZO-A-PYRENE  
3500U BENZYL BUTYL PHTHALATE  
3500U BIS(2-CHLOROETHOXY) METHANE  
3500U BIS(2-CHLOROETHYL) ETHER  
3500U BIS(2-ETHYLHEXYL) PHTHALATE  
3500U CARBAZOLE  
470J CHRYSENE  
3500U DI-N-BUTYLPHTHALATE  
3500U DI-N-OCTYLPHTHALATE  
3500U DIBENZO(A,H)ANTHRACENE  
3500U DIBENZOFURAN  
3500U DIETHYL PHTHALATE  
3500U DIMETHYL PHTHALATE  
490J FLUORANTHENE  
3500U FLUORENE  
3500U HEXACHLOROBENZENE (HCB)  
3500U HEXACHLOROBUTADIENE  
3500U HEXACHLOROCYCLOPENTADIENE (HCCP)  
3500U HEXACHLOROETHANE  
3500U INDENO(1,2,3-CD) PYRENE  
3500U ISOPHORONE  
3500U N-NITROSODI-N-PROPYLAMINE  
3500U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
3500U NAPHTHALENE  
3500U NITROBENZENE  
7000U PENTACHLOROPHENOL  
3500U PHENANTHRENE  
3500U PHENOL  
480J PYRENE  
4.7 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 117 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T11-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1015 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.00 SILVER  
4.0 ARSENIC  
NA BORON  
24 BARIUM  
0.50U BERYLLIUM  
0.92 CADMIUM  
1.00 COBALT  
9.3 CHROMIUM  
140 COPPER  
1.00 MOLYBDENUM  
2.9 NICKEL  
240 LEAD  
4.0U ANTIMONY  
4.0U SELENIUM  
16 TIN  
8.9 STRONTIUM  
5.0U TELLURIUM  
78 TITANIUM  
10U THALLIUM  
14 VANADIUM  
1.8 YTTRIUM  
230 ZINC  
NA ZIRCONIUM  
0.22 MERCURY  
6900 ALUMINUM  
88 MANGANESE

4100A CALCIUM  
410 MAGNESIUM  
6700 IRON  
560 SODIUM  
250U POTASSIUM  
6 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE ORGANICS DATA REPORT

\*\*\*

PROJECT NO. 96-0002

STATION ID: SF-T09-001

11/16/95

SAMPLE AND ANALYSIS

EPA-REGION IV ESL, ATHENS, GA.

11/16/95

AGENT SYSTEM

PROG ELEM: SSP

CITY: PENSACOLA

COLLECTION START: 10/18/85

STOP: 00/00/00

SAMPLE TYPE: SOIL

115

1140

00/00/00

115

1140

00/00/00

115

1140

00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
68U	CHLOROMETHANE	68U	CIS-1,3-DICHLOROPROPENE
68U	VINYL CHLORIDE	170U	METHYL ISOBUTYL KETONE
68U	BROMOMETHANE	68U	TOLUENE
68U	CHLOROETHANE	68U	TRANS-1,3-DICHLOROPROPENE
68U	TRICHLOROFLUOROMETHANE	68U	1,1,2-TRICHLOROETHANE
68U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	68U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
68U	ACETONE	68U	1,3-DICHLOROPROPANE
170U	CARBON DISULFIDE	170U	METHYL BUTYL KETONE
68U	METHYLENE CHLORIDE	68U	DIBROMOCHLOROMETHANE
68U	TRANS-1,2-DICHLOROETHENE	68U	CHLOROBENZENE
68U	1,1-DICHLOROETHANE	68U	1,1,1,2-TETRACHLOROETHANE
68U	CIS-1,2-DICHLOROETHENE	68U	ETHYL BENZENE
68U	2,2-DICHLOROPROPANE	68U	(M- AND/OR P-) XYLENE
68U	METHYL ETHYL KETONE	68U	O-XYLENE
68U	BROMOCHLOROMETHANE	68U	STYRENE
68U	CHLOROFORM	68U	BROMOFORM
68U	1,1,1-TRICHLOROETHANE	68U	BROMOBENZENE
68U	1,1-DICHLOROPROPENE	68U	1,1,2,2-TETRACHLOROETHANE
68U	CARBON TETRACHLORIDE	68U	1,2,3-TRICHLOROPROPANE
68U	1,2-DICHLOROETHANE	68U	O-CHLOROTOLUENE
68U	BENZENE	68U	P-CHLOROTOLUENE
68U	TRICHLOROETHENE (TRICHLOROETHYLENE)	68U	1,3-DICHLOROBENZENE
68U	1,2-DICHLOROPROPANE	68U	1,4-DICHLOROBENZENE
68U	DIBROMOMETHANE	68U	1,2-DICHLOROBENZENE
68U	BROMODICHLOROMETHANE	8.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



## 11/08/95

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1140 STO

## ANALYTICAL RESULTS

BENZO (GHI) PERYLENE  
BENZO-A-PYRENE  
BENZYL BUTYL PHTHALATE  
BIS (2-CHLOROETHOXY) METHANE  
BIS (2-CHLOROETHYL) ETHER  
BIS (2-ETHYLHEXYL) PHTHALATE  
CARBAZOLE  
CHRYSENE  
DI-N-BUTYLPHTHALATE  
DI-N-OCTYLPHTHALATE  
DIBENZO (A,H) ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHYL PHTHALATE  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE (HCB)  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE (HCCP)  
HEXACHLOROETHANE  
INDENO (1,2,3-CD) PYRENE  
ISOPHORONE  
N-NITROSODI-N-PROPYLAMINE  
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
NAPHTHALENE  
NITROBENZENE  
PENTACHLOROPHENOL  
PHENANTHRENE  
PHENOL  
PYRENE  
PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

FOOTNOTES\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN			*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN	
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				

SAMPLE AND ANALYSIS  
BPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 114 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T08-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1000 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS  
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT

11/16/95

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 114 SAMPLE TYPE: SOIL

\*\* SOURCE: NAS PENSACOLA

\*\* STATION ID: SF-T08-001

\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

COLLECTION START: 10/18/85 1000 STOP: 00/00/00

\*\*\*

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

66U	CHLOROMETHANE	66U	CIS-1,3-DICHLOROPROPENE
66U	VINYL CHLORIDE	170U	METHYL ISOBUTYL KETONE
66U	BROMOMETHANE	66U	TOLUENE
66U	CHLOROETHANE	66U	TRANS-1,3-DICHLOROPROPENE
66U	TRICHLOROFLUOROMETHANE	66U	1,1,2-TRICHLOROETHANE
66U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	66U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
66U	ACETONE	66U	1,3-DICHLOROPROPANE
170U	CARBON DISULFIDE	170U	METHYL BUTYL KETONE
66U	METHYLENE CHLORIDE	66U	DIBROMOCHLOROMETHANE
66U	TRANS-1,2-DICHLOROETHENE	66U	CHLOROBENZENE
66U	1,1-DICHLOROETHANE	66U	1,1,1,2-TETRACHLOROETHANE
66U	CIS-1,2-DICHLOROETHENE	66U	ETHYL BENZENE
66U	2,2-DICHLOROPROPANE	66U	(M- AND/OR P-) XYLENE
66U	METHYL ETHYL KETONE	66U	O-XYLENE
66U	BROMOCHLOROMETHANE	66U	STYRENE
66U	CHLOROFORM	66U	BROMOFORM
66U	1,1,1-TRICHLOROETHANE	66U	BROMOBENZENE
66U	1,1-DICHLOROPROPENE	66U	1,1,2,2-TETRACHLOROETHANE
66U	CARBON TETRACHLORIDE	66U	1,2,3-TRICHLOROPROPANE
66U	1,2-DICHLOROETHANE	66U	O-CHLOROTOLUENE
66U	BENZENE	66U	P-CHLOROTOLUENE
66U	TRICHLOROETHENE(TRICHLOROETHYLENE)	66U	1,3-DICHLOROBENZENE
66U	1,2-DICHLOROPROPANE	66U	1,4-DICHLOROBENZENE
66U	DIBROMOMETHANE	66U	1,2-DICHLOROBENZENE
66U	BROMODICHLOROMETHANE	5.6	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS: NAGEMENT SYSTEM  
EPA-REGION IV B , ATHENS, GA. /20/95

PESTICIDES/PCB'S DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 113 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SP-T07-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 0830 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
50U ALDRIN		500U PCB-1232 (AROCCLOR 1232)	
50U HEPTACHLOR		500U PCB-1248 (AROCCLOR 1248)	
50U HEPTACHLOR EPOXIDE		500U PCB-1260 (AROCCLOR 1260)	
50U ALPHA-BHC		500U PCB-1016 (AROCCLOR 1016)	
50U BETA-BHC		3000U TOXAPHENE	
50U GAMMA-BHC (LINDANE)		-- CHLORDENE /2	
50U DELTA-BHC		-- ALPHA-CHLORDENE /2	
50U ENDOSULFAN I (ALPHA)		-- BETA CHLORDENE /2	
9JN DIELDRIN		-- GAMMA-CHLORDENE /2	
50U 4,4'-DDT (P,P'-DDT)		-- GAMMA-CHLORDANE /2	
15JN 4,4'-DDE (P,P'-DDE)		-- TRANS-NONACHLOR /2	
50U 4,4'-DDD (P,P'-DDD)		-- ALPHA-CHLORDANE /2	
50U ENDRIN		-- CIS-NONACHLOR /2	
50U ENDOSULFAN II (BETA)		-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2	
50U ENDOSULFAN SULFATE		200U METHOXYCHLOR	
200U CHLORDANE (TECH. MIXTURE) /1		50U ENDRIN KETONE	
500U PCB-1242 (AROCCLOR 1242)		5.2 PERCENT MOISTURE	
500U PCB-1254 (AROCCLOR 1254)			
500U PCB-1221 (AROCCLOR 1221)			

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN C-CONFIRMED BY GC/MS

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 114 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T08-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 1000 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

2.0U SILVER	260	CALCIUM
6.0U ARSENIC	120	MAGNESIUM
NA BORON	8100	IRON
3.8 BARIUM	200U	SODIUM
1.0U BERYLLIUM	400U	POTASSIUM
1.0U CADMIUM	5	PERCENT MOISTURE
2.0U COBALT		
12 CHROMIUM		
2.6 COPPER		
2.0U MOLYBDENUM		
4.0U NICKEL		
3.3 LEAD		
6.0U ANTIMONY		
8.0U SELENIUM		
5.0U TIN		
2.0U STRONTIUM		
10U TELLURIUM		
84 TITANIUM		
20U THALLIUM		
23 VANADIUM		
2.0U YTTRIUM		
3.1 ZINC		
NA ZIRCONIUM		
0.05U MERCURY		
14000 ALUMINUM		
11 MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV B33, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 113 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: SF-T07-001 COLLECTION START: 10/18/85 0830 STOP: 00/00/00 \*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
3600U	(3-AND/OR 4-) METHYLPHENOL	3600U	BENZO (GHI) PERYLENE
3600U	1,2,4-TRICHLOROBENZENE	3600U	BENZO-A-PYRENE
3600U	2,2'-CHLOROISOPROPYLETHER	3600U	BENZYL BUTYL PHTHALATE
3600U	2,3,4,6-TETRACHLOROPHENOL	3600U	BIS(2-CHLOROETHOXY) METHANE
3600U	2,4,5-TRICHLOROPHENOL	3600U	BIS(2-CHLOROETHYL) ETHER
3600U	2,4,6-TRICHLOROPHENOL	3600U	BIS(2-ETHYLHEXYL) PHTHALATE
3600U	2,4-DICHLOROPHENOL	3600U	CARBAZOLE
3600U	2,4-DIMETHYLPHENOL	3600U	CHRYSENE
7200U	2,4-DINITROPHENOL	3600U	DI-N-BUTYLPHTHALATE
3600U	2,4-DINITROTOLUENE	3600U	DI-N-OCTYLPHTHALATE
3600U	2,6-DINITROTOLUENE	3600U	DIBENZO(A,H)ANTHRACENE
3600U	2-CHLORONAPHTHALENE	3600U	DIBENZOFURAN
3600U	2-CHLOROPHENOL	3600U	DIETHYL PHTHALATE
7200U	2-METHYL-4,6-DINITROPHENOL	3600U	DIMETHYL PHTHALATE
3600U	2-METHYLNAPHTHALENE	3600U	FLUORANTHENE
3600U	2-METHYLPHENOL	3600U	FLUORENE
3600U	2-NITROANILINE	3600U	HEXACHLOROBENZENE (HCB)
3600U	2-NITROPHENOL	3600U	HEXACHLOROBUTADIENE
3600U	3,3'-DICHLOROBENZIDINE	3600U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3600U	3-NITROANILINE	3600U	HEXACHLOROETHANE
3600U	4-BROMOPHENYL PHENYL ETHER	3600U	INDENO (1,2 3-CD) PYRENE
3600U	4-CHLORO-3-METHYLPHENOL	3600U	ISOPHORONE
3600U	4-CHLOROANILINE	3600U	N-NITROSODI-N-PROPYLAMINE
3600U	4-CHLOROPHENYL PHENYL ETHER	3600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3600U	4-NITROANILINE	3600U	NAPHTHALENE
7200U	4-NITROPHENOL	3600U	NITROBENZENE
3600U	ACENAPHTHENE	7200U	PENTACHLOROPHENOL
3600U	ACENAPHTHYLENE	3600U	PHENANTHRENE
3600U	ANTHRACENE	3600U	PHENOL
3600U	BENZO(A)ANTHRACENE	3600U	PYRENE
3600U	BENZO(B AND/OR K)FLUORANTHENE	5.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

12/18/95

[illegible][illegible]

\*\*FOOTNOTES\*\*  
 \*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS AGEMENT SYSTEM  
EPA-REGION IV ES, ATHENS, GA.

11/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 113 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SP-T07-001  
PROG ELEM: SSP COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 0830 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

4100 CALCIUM  
750 MAGNESIUM  
3000 IRON  
140 SODIUM  
2000 POTASSIUM  
5 PERCENT MOISTURE

MG/KG

1.0U SILVER  
3.0U ARSENIC  
NA BORON  
23 BARIUM  
0.50U BERYLLIUM  
1.2 CADMIUM  
1.0U COBALT  
9.7 CHROMIUM  
21 COPPER  
1.0U MOLYBDENUM  
3.3 NICKEL  
93 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
4.5U TIN  
9.6 STRONTIUM  
5.0U TELLURIUM  
60 TITANIUM  
10U THALLIUM  
8.6 VANADIUM  
2.1 YTTRIUM  
67 ZINC  
NA ZIRCONIUM  
0.08 MERCURY  
4700 ALUMINUM  
100 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 113 SAMPLE TYPE: SOIL PROG ELEM: SSP COLLECTED BY: P SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SF-T07-001 COLLECTION START: 10/18/85 0830 STOP: 00/00/00  
\*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
75UJ	CHLOROMETHANE	75UJ	CIS-1,3-DICHLOROPROPENE
75UJ	VINYL CHLORIDE	190UJ	METHYL ISOBUTYL KETONE
75UJ	BROMOMETHANE	75UJ	TOLUENE
75UJ	CHLOROETHANE	75UJ	TRANS-1,3-DICHLOROPROPENE
75UJ	TRICHLOROFLUOROMETHANE	75UJ	1,1,2-TRICHLOROETHANE
75UJ	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	75UJ	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
75UJ	ACETONE	75UJ	1,3-DICHLOROPROPANE
190UJ	CARBON DISULFIDE	190UJ	METHYL BUTYL KETONE
75UJ	METHYLENE CHLORIDE	75UJ	DIBROMOCHLOROMETHANE
75UJ	TRANS-1,2-DICHLOROETHENE	75UJ	CHLOROBENZENE
75UJ	1,1-DICHLOROETHANE	75UJ	1,1,1,2-TETRACHLOROETHANE
75UJ	CIS-1,2-DICHLOROETHENE	75UJ	ETHYL BENZENE
75UJ	2,2-DICHLOROPROPANE	75UJ	(M- AND/OR P-) XYLENE
750UJ	METHYL ETHYL KETONE	75UJ	O-XYLENE
75UJ	BROMOCHLOROMETHANE	75UJ	STYRENE
75UJ	CHLOROFORM	75UJ	BROMOFORM
75UJ	1,1,1-TRICHLOROETHANE	75UJ	BROMOBENZENE
75UJ	1,1-DICHLOROPROPENE	75UJ	1,1,2,2-TETRACHLOROETHANE
75UJ	CARBON TETRACHLORIDE	75UJ	1,2,3-TRICHLOROPROPANE
75UJ	1,2-DICHLOROETHANE	75UJ	O-CHLOROTOLUENE
75UJ	BENZENE	75UJ	P-CHLOROTOLUENE
75UJ	TRICHLOROETHENE (TRICHLOROETHYLENE)	75UJ	1,3-DICHLOROBENZENE
75UJ	1,2-DICHLOROPROPANE	75UJ	1,4-DICHLOROBENZENE
75UJ	DIBROMOMETHANE	75UJ	1,2-DICHLOROBENZENE
75UJ	BROMODICHLOROMETHANE	5.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION L.MIT.

SAMPLE AND ANALYSIS GEMENT SYSTEM  
EPA-REGION IV ESL, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 112 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T06-001  
PROG ELEM: SSF COLLECTED BY: P SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/85 0800 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.20U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 112 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T06-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: P SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/18/85 0800 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

500U ALDRIN	500U PCB-1232 (AROCOR 1232)
500U HEPTACHLOR	500U PCB-1248 (AROCOR 1248)
500U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROCOR 1260)
500U ALPHA-BHC	500U PCB-1016 (AROCOR 1016)
500U BETA-BHC	3000U TOXAPHENE
500U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
500U DELTA-BHC	-- ALPHA-CHLORDENE /2
500U ENDOSULFAN I (ALPHA)	-- BETA-CHLORDENE /2
500U DIELDRIN	-- GAMMA-CHLORDENE /2
500U 4,4'-DDT (P,P'-DDT)	-- TRANS-NONACHLOR /2
500U 4,4'-DDE (P,P'-DDE)	-- ALPHA-CHLORDANE /2
500U 4,4'-DDD (P,P'-DDD)	-- CIS-NONACHLOR /2
500U ENDRIN	-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
500U ENDOSULFAN II (BETA)	200U METHOXYCHLOR
500U ENDOSULFAN SULFATE	50U ENDRIN KETONE
200U CHLORDANE (TECH. MIXTURE) /1	1.8 PERCENT MOISTURE
500U PCB-1242 (AROCOR 1242)	
500U PCB-1254 (AROCOR 1254)	
500U PCB-1221 (AROCOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.





**SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.**

11/27/95

# MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
** PROJECT NO. 96-0002 SAMPLE NO. 109 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SF-T03-001
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
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## ANALYTICAL RESULTS UG/KG

**N PETROLEUM PRODUCT**

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE	IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN		
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.				



SAMPLE AND ANALYSIS  
EPA-REGION IV BS.

EMENT SYSTEM  
.THENS, GA.

1 .5/95

METALS DATA REPORT

PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T03-001

109  
SAMPLE TYPE: SOIL  
PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/17/95  
STOP: 00/00/00

ST: FL

ANALYTICAL RESULTS

MG/KG

ANALYTICAL RESULTS

1.00 SILVER  
5.00 ARSENIC  
NA BORON  
28 BARIUM  
0.50U BERYLLIUM  
0.72 CADMIUM  
1.00 COBALT  
11 CHROMIUM  
35 COPPER  
1.00 MOLYBDENUM  
3.1 NICKEL  
210 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
5.5U TIN  
8.8 STRONTIUM  
5.0U TELLURIUM  
58 TITANIUM  
100 THALLIUM  
7.3 VANADIUM  
1.6 YTTRIUM  
130 ZINC  
NA ZIRCONIUM  
0.12 MERCURY  
3700 ALUMINUM  
63 MANGANESE

2800 CALCIUM  
700 MAGNESIUM  
3400 IRON  
490 SODIUM  
200U POTASSIUM  
5 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 109 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T03-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: P SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1500 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

48U CHLOROMETHANE  
48U VINYL CHLORIDE  
48U BROMOMETHANE  
48U CHLOROETHANE  
48U TRICHLOROFLUOROMETHANE  
48U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
120U ACETONE  
48U CARBON DISULFIDE  
48U METHYLENE CHLORIDE  
48U TRANS-1,2-DICHLOROETHENE  
48U 1,1-DICHLOROETHANE  
48U CIS-1,2-DICHLOROETHENE  
48U 2,2-DICHLOROPROPANE  
48U METHYL ETHYL KETONE  
48U BROMOCHLOROMETHANE  
48U CHLOROFORM  
48U 1,1,1-TRICHLOROETHANE  
48U 1,1-DICHLOROPROPENE  
48U CARBON TETRACHLORIDE  
48U 1,2-DICHLOROETHANE  
48U BENZENE  
48U TRICHLOROETHENE (TRICHLOROETHYLENE)  
48U 1,2-DICHLOROPROPANE  
48U DIBROMOMETHANE  
48U BROMODICHLOROMETHANE

UG/KG ANALYTICAL RESULTS

48U CIS-1,3-DICHLOROPROPENE  
120U METHYL ISOBUTYL KETONE  
48U TOLUENE  
48U TRANS-1,3-DICHLOROPROPENE  
48U 1,1,2-TRICHLORCETHANE  
48U TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
48U 1,3-DICHLOROPROPANE  
120U METHYL BUTYL KETONE  
48U DIBROMOCHLOROMETHANE  
48U CHLOROBENZENE  
48U 1,1,1,2-TETRACHLOROETHANE  
48U ETHYL BENZENE  
48U (M- AND/OR P-) XYLENE  
48U O-XYLENE  
48U STYRENE  
48U BROMOFORM  
48U BROMOBENZENE  
48U 1,1,2,2-TETRACHLOROETHANE  
48U 1,2,3-TRICHLOROPROPANE  
48U O-CHLOROTOLUENE  
48U P-CHLOROTOLUENE  
48U 1,3-DICHLOROBENZENE  
48U 1,4-DICHLOROBENZENE  
48U 1,2-DICHLOROBENZENE  
5.2 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

**SAMPLE AND ANALYSIS**  
**BPA-REGION IV ESL, ATHENS, GA.**

56/81/71

# SPECIFIED ANALYSIS DATA REPORT

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*** PROJECT NO. 96-0002 SAMPLE NO. 108 SAMPLE TYPE: SOIL ***
** SOURCE: NAS PENSACOLA ***
** STATION ID: SF-T02-001 ***
***
*** PROG ELEM: SSF COLLECTED BY: F SLOAN ***
*** CITY: PENSACOLA ST: FL ***
*** COLLECTION START: 10/17/95 1420 STOP: 00/00/00 ***
***

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RESULTS	UNITS	PARAMETER
0.21U	MG/KG	CYANIDE

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 108 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T02-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1420 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

50U ALDRIN	500U PCB-1232 (AROCOR 1232)	UG/KG ANALYTICAL RESULTS
50U HEPTACHLOR EPOXIDE	500U PCB-1248 (AROCOR 1248)	
50U ALPHA-BHC	500U PCB-1260 (AROCOR 1260)	
50U BETA-BHC	500U PCB-1016 (AROCOR 1016)	
50U GAMMA-BHC (LINDANE)	3000U TOXAPHENE	
50U DELTA-BHC	-- CHLORDENE /2	
50U ENDOSULFAN I (ALPHA)	-- ALPHA-CHLORDENE /2	
50U DIELDRIN	-- BETA-CHLORDENE /2	
50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDENE /2	
50U 4,4'-DDE (P,P'-DDE)	-- GAMMA-CHLORDANE /2	
50U 4,4'-DDD (P,P'-DDD)	-- TRANS-NONACHLOR /2	
50U ENDRIN	-- ALPHA-CHLORDANE /2	
50U ENDOSULFAN II (BETA)	-- CIS-NONACHLOR /2	
50U ENDOSULFAN SULFATE	-- OXYCHLORDANE (CCTACHLOREPOXIDE) /2	
200U CHLORDANE (TECH. MIXTURE) /1	200U METHOXYCHLOR	
500U PCB-1242 (AROCOR 1242)	50U ENDRIN KETONE	
500U PCB-1254 (AROCOR 1254)	4.8 PERCENT MOISTURE	
500U PCB-1221 (AROCOR 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

**SAMPLE AND ANALYSIS M. JEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.**

11/16/95

# PURGEABLE ORGANICS DATA REPORT

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*** ** PROJECT NO. 96-0002 SAMPLE NO. 108 SAMPLE TYPE: SOIL *** **
** PROG ELEM: SSF COLLECTED BY: F SLOAN *** **
** SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL *** **
** STATION ID: SF-T02-001 COLLECTION START: 10/17/95 1420 STOP: 00/00/00 *** **
```

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
44U	CHLOROMETHANE	44U	CIS-1,3-DICHLOROPROPENE
44U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
44U	BROMOMETHANE	44U	TOLUENE
44U	CHLOROETHANE	44U	TRANS-1,3-DICHLOROPROPENE
44U	TRICHLOROFLUOROMETHANE	44U	1,1,2-TRICHLOROETHANE
44U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	44U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
440U	ACETONE	44U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
44U	METHYLENE CHLORIDE	44U	DIBROMOCHLOROMETHANE
44U	TRANS-1,2-DICHLOROETHENE	44U	CHLOROBENZENE
44U	1,1-DICHLOROETHANE	44U	1,1,1,2-TETRACHLOROETHANE
44U	CIS-1,2-DICHLOROETHENE	44U	ETHYL BENZENE
44U	2,2-DICHLOROPROPANE	44U	(M- AND/OR P-) XYLENE
440U	METHYL ETHYL KETONE	44U	O-XYLENE
44U	BROMOCHLOROMETHANE	44U	STYRENE
44U	CHLOROFORM	44U	BROMOFORM
44U	1,1,1-TRICHLOROETHANE	44U	BROMOBENZENE
44U	1,1-DICHLOROPROPENE	44U	1,1,2,2-TETRACHLOROETHANE
44U	CARBON TETRACHLORIDE	44U	1,2,3-TRICHLOROPROPANE
44U	1,2-DICHLOROETHANE	44U	O-CHLOROTOLUENE
44U	BENZENE	44U	P-CHLOROTOLUENE
44U	TRICHLOROETHENE (TRICHLOROETHYLENE)	44U	1,3-DICHLOROBENZENE
44U	1,2-DICHLOROPROPANE	44U	1,4-DICHLOROBENZENE
44U	DIBROMOMETHANE	44U	1,2-DICHLOROBENZENE
44U	BROMODICHLOROMETHANE	4.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

## \*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



## 11/27/95

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\*\* PROJECT NO. 96-0002 SAMPLE NO. 108 SAMPLE TYPE: SOIL  
 \*\* SOURCE: NAS PENSACOLA  
 \*\* STATION ID: SF-T02-001  
 \*\*  
 \*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
 \*\* CITY: PENSACOLA ST: FL  
 \*\* COLLECTION START: 10/17/95 1420 STOP: 00/00/00

## ANALYTICAL RESULTS

## ANALYTICAL RESULTS

BENZO (GHI) PERYLENE  
BENZO-A-PYRENE  
BENZYL BUTYL PHTHALATE  
BIS (2-CHLOROETHOXY) METHANE  
BIS (2-CHLOROETHYL) ETHER  
BIS (2-ETHYLHEXYL) PHTHALATE  
CARBAZOLE  
CHRYSENE  
DI-N-BUTYLPHTHALATE  
DI-N-OCTYLPHTHALATE  
DIBENZO (A, H) ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHYL PHTHALATE  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE (HCB)  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE (HCCP)  
HEXACHLOROETHANE  
INDENO (1,2,3-CD) PYRENE  
ISOPHORONE  
N-NITROSODI-N-PROPYLAMINE  
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
NAPHTHALENE  
NITROBENZENE  
PENTACHLOROPHENOL  
PHENANTHRENE  
PHENOL  
PYRENE  
PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				



## 11/20/95

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** PROJECT NO. 96-0002 SAMPLE NO. 107 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SF-T01-001
**
** PROG ELEM: SSF COLLECTED BY: F SLOAN
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/17/95 1120 STOP: 00/00/00

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## ANALYTICAL RESULTS

## ANALYTICAL RESULTS

500U	PCB-1232	(AFOCOR	1232)
500U	PCB-1248	(AFOCOR	1248)
810	PCB-1260	(AFOCOR	1260)
500U	PCB-1016	(AFOCOR	1016)
3000U	TOXAPHENE		
--	CHLORDENE	/2	
--	ALPHA-CHLORDENE		/2
--	BETA CHLORDENE		/2
--	GAMMA-CHLORDENE		/2
--	GAMMA-CHLORDANE		/2
--	TRANS-NONACHLOR		/2
--	ALPHA-CHLORDANE		/2
--	CIS-NONACHLOR		/2
--	OXYCHLORDANE	(OCTACHLOR	
200U	METHOXYCHLOF		
50U	ENDRIN KETONE		
5.5	PERCENT MOISTURE		

12

\*\*\*REMARKS\*\*\*

FOUNOIES -

	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*A-AVERAGE VALUE	IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN		
*K-ACTUAL VALUE	IS KNOWN TO BE LESS THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				C-CONFIRMED BY GC/MS
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.				
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.				

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV BSD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 108 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T02-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1420 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

940 CALCIUM  
160 MAGNESIUM  
3500 IRON  
1000 SODIUM  
2000 POTASSIUM  
5 PERCENT MOISTURE

MG/KG  
1.00 SILVER  
5.00 ARSENIC  
NA BORON  
11 BARIUM  
0.500 BERYLLIUM  
0.500 CADMIUM  
1.00 COBALT  
5.9 CHROMIUM  
7.7 COPPER  
1.00 MOLYBDENUM  
2.0 NICKEL  
20 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
3.00 TIN  
3.6 STRONTIUM  
5.00 TELLURIUM  
74 TITANIUM  
100 THALLIUM  
9.3 VANADIUM  
1.0 YTTRIUM  
26 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
6600 ALUMINUM  
90 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.







SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 107 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: P SLOAN \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\*\* STATION ID: SF-T01-001 COLLECTION START: 10/17/95 1120 STOP: 00/00/00 \*\*\*  
\*\*\*

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS M  
EPA-REGION IV ESL  
EMENT SYSTEM  
CHENS, GA.  
12 /95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T16-001

131  
SAMPLE TYPE: SOIL  
SAMPLE NO.

PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/19/95  
COLLECTED BY: F SLOAN  
ST: FL  
STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 131 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*\*  
\*\*\* STATION ID: SF-T16-001 COLLECTION START: 10/19/95 0840 STOP: 00/00/00 \*\*\*

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

3800U	(3-AND/OR 4-) METHYLPHENOL	3800U	BENZO (GHI) PERYLENE
3800U	1, 2, 4-TRICHLOROBENZENE	3800U	BENZO-A-PYRENE
3800U	2, 2'-CHLOROISOPROPYLETHYER	3800U	BENZYL BUTYL PHTHALATE
3800U	2, 3, 4, 6-TETRACHLOROPHENOL	3800U	BIS (2-CHLOROETHOXY) METHANE
3800U	2, 4, 5-TRICHLOROPHENOL	3800U	BIS (2-CHLOROETHYL) ETHER
3800U	2, 4, 6-TRICHLOROPHENOL	3800U	BIS (2-ETHYLHEXYL) PHTHALATE
3800U	2, 4-DICHLOROPHENOL	3800U	CARBAZOLE
3800U	2, 4-DIMETHYLPHENOL	3800U	CHRYSENE
7500U	2, 4-DINITROPHENOL	3800U	DI-N-BUTYLPHTHALATE
3800U	2, 4-DINITROTOLUENE	3800U	DI-N-OCTYLPHTHALATE
3800U	2, 6-DINITROTOLUENE	3800U	DIBENZO (A, H) ANTHRACENE
3800U	2-CHLORONAPHTHALENE	3800U	DIBENZOFURAN
3800U	2-CHLOROPHENOL	3800U	DIETHYL PHTHALATE
7500U	2-METHYL-4, 6-DINITROPHENOL	3800U	DIMETHYL PHTHALATE
3800U	2-METHYLNAPHTHALENE	3800U	FLUORANTHENE
3800U	2-METHYLPHENOL	3800U	FLUORENE
3800U	2-NITROANILINE	3800U	HEXACHLOROBENZENE (HCB)
3800U	2-NITROPHENOL	3800U	HEXACHLOROBUTADIENE
3800U	3, 3'-DICHLOROBENZIDINE	3800U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3800U	3-NITROANILINE	3800U	HEXACHLOROETHANE
3800U	4-BROMOPHENYL PHENYL ETHER	3800U	INDENO (1, 2, 3-CD) PYRENE
3800U	4-CHLORO-3-METHYLPHENOL	3800U	ISOPHORONE
3800U	4-CHLOROANILINE	3800U	N-NITROSODI-N-PROPYLAMINE
3800U	4-CHLOROPHENYL PHENYL ETHER	3800U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3800U	4-NITROANILINE	3800U	NAPHTHALENE
7500U	4-NITROPHENOL	3800U	NITROBENZENE
3800U	ACENAPHTHENE	7500U	PENTACHLOROPHENOL
3800U	ACENAPHTHYLENE	3800U	PHENANTHRENE
3800U	ANTHRACENE	3800U	PHENOL
3800U	BENZO (A) ANTHRACENE	3800U	PYRENE
3800U	BENZO (B AND/OR K) FLUORANTHENE	4.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PESTICIDES/PCl DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 131 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T16-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0840 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
500U	ALDRIN	500U	PCB-1232 (AROCLO 1232)
500U	HEPTACHLOR	500U	PCB-1248 (AROCLO 1248)
500U	HEPTACHLOR EPOXIDE	500U	PCB-1260 (AROCLO 1260)
500U	ALPHA-BHC	500U	PCB-1016 (AROCLO 1016)
500U	BETA-BHC	3000U	TOXAPHENE
500U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
500U	DELTA-BHC	--	ALPHA-CHLORDENE /2
500U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
500U	DIELDRIN	--	GAMMA-CHLORDENE /2
500U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
500U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
500U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
500U	ENDRIN	--	CIS-NONACHLOR /2
500U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOROPOXIDE) /2
500U	ENDOSULFAN SULFATE	200U	METHOXYCHLOR
200U	CHLORDANE (TECH. MIXTURE) /1	50U	ENDRIN KETONE
500U	PCB-1242 (AROCLO 1242)	4.7	PERCENT MOISTURE
500U	PCB-1254 (AROCLO 1254)		
500U	PCB-1221 (AROCLO 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 132 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T17-001  
\*\*\*

\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/19/95 0910 STOP: 00/00/00  
\*\*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

7900 CALCIUM  
470 MAGNESIUM  
7400 IRON  
110 SODIUM  
2000 POTASSIUM  
3 PERCENT MOISTURE

MG/KG

1.00 SILVER  
6.3 ARSENIC  
NA BORON  
46 BARIUM  
0.50U BERYLLIUM  
1.4 CADMIUM  
1.2 COBALT  
9.3 CHROMIUM  
25 COPPER  
1.00 MOLYBDENUM  
4.0 NICKEL  
180 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
6.00 TIN  
30 STRONTIUM  
5.00 TELLURIUM  
87 TITANIUM  
100 THALLIUM  
13 VANADIUM  
2.7 YTTRIUM  
110 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
7800 ALUMINUM  
130 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL.  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*\*\*

PROJECT NO. 96-0002

SAMPLE NO. 132

SAMPLE TYPE: SOIL

PROG ELEM: SSF

COLLECTED BY: F SLOAN

\*\*\*

SOURCE: NAS PENSACOLA

CITY: PENSACOLA

ST: FL

\*\*\*

STATION ID: SF-T17-001

COLLECTION START: 10/19/95

0910

STOP: 00/00/00

\*\*\*

ANALYTICAL RESULTS										ANALYTICAL RESULTS									
UG/KG					UG/KG					UG/KG					UG/KG				
110U	CHLOROMETHANE				110U	CIS-1,3-DICHLOROPROPENE				110U	CIS-1,3-DICHLOROPROPENE				110U				
110U	VINYL CHLORIDE				260U	METHYL ISOBUTYL KETONE				260U	METHYL ISOBUTYL KETONE				260U				
110U	BROMOMETHANE				110U	TOLUENE				110U	TOLUENE				110U				
110U	CHLOROETHANE				110U	TRANS-1,3-DICHLOROPROPENE				110U	TRANS-1,3-DICHLOROPROPENE				110U				
110U	TRICHLOROFLUOROMETHANE				110U	1,1,2-TRICHLOROETHANE				110U	1,1,2-TRICHLOROETHANE				110U				
110U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)				110U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)				110U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)				110U				
1100U	ACETONE				110U	1,3-DICHLOROPROPANE				110U	1,3-DICHLOROPROPANE				110U				
260U	CARBON DISULFIDE				260U	METHYL BUTYL KETONE				260U	METHYL BUTYL KETONE				260U				
110U	METHYLENE CHLORIDE				110U	DIBROMOCHLOROMETHANE				110U	DIBROMOCHLOROMETHANE				110U				
110U	TRANS-1,2-DICHLOROETHENE				110U	CHLOROBENZENE				110U	CHLOROBENZENE				110U				
110U	1,1-DICHLOROETHANE				110U	1,1,1,2-TETRACHLOROETHANE				110U	1,1,1,2-TETRACHLOROETHANE				110U				
110U	CIS-1,2-DICHLOROETHENE				110U	ETHYL BENZENE				110U	ETHYL BENZENE				110U				
110U	2,2-DICHLOROPROPANE				110U	(M- AND/OR P-) XYLENE				110U	(M- AND/OR P-) XYLENE				110U				
1100U	METHYL ETHYL KETONE				110U	O-XYLENE				110U	O-XYLENE				110U				
110U	BROMOCHLOROMETHANE				110U	STYRENE				110U	STYRENE				110U				
110U	CHLOROFORM				110U	BROMOFORM				110U	BROMOFORM				110U				
110U	1,1,1-TRICHLOROETHANE				110U	BROMOBENZENE				110U	BROMOBENZENE				110U				
110U	1,1-DICHLOROPROPENE				110U	1,1,2,2-TETRACHLOROETHANE				110U	1,1,2,2-TETRACHLOROETHANE				110U				
110U	CARBON TETRACHLORIDE				110U	1,2,3-TRICHLOROPROPANE				110U	1,2,3-TRICHLOROPROPANE				110U				
110U	1,2-DICHLOROETHANE				110U	O-CHLOROTOLUENE				110U	O-CHLOROTOLUENE				110U				
110U	BENZENE				110U	P-CHLOROTOLUENE				110U	P-CHLOROTOLUENE				110U				
110U	TRICHLOROETHENE (TRICHLOROETHYLENE)				110U	1,3-DICHLOROBENZENE				110U	1,3-DICHLOROBENZENE				110U				
110U	1,2-DICHLOROPROPANE				110U	1,4-DICHLOROBENZENE				110U	1,4-DICHLOROBENZENE				110U				
110U	DIBROMOMETHANE				110U	1,2-DICHLOROBENZENE				110U	1,2-DICHLOROBENZENE				110U				
110U	BROMODICHLOROMETHANE				5.3	PERCENT MOISTURE				5.3	PERCENT MOISTURE				5.3				

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS M/ TEMENT SYSTEM  
EPA-REGION IV ESD HENS, GA.

11 /95

PURGEABLE ORGA. S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 131 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T16-001  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0840 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

130U	CHLOROMETHANE	130U	CIS-1,3-DICHLOROPROPENE
130U	VINYL CHLORIDE	330U	METHYL ISOBUTYL KETONE
130U	BROMOMETHANE	130U	TOLUENE
130U	CHLOROETHANE	130U	TRANS-1,3-DICHLOROPROPENE
130U	TRICHLOROFLUOROMETHANE	130U	1,1,2-TRICHLOROETHANE
130U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	130U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1300U	ACETONE	130U	1,3-DICHLOROPROPANE
330U	CARBON DISULFIDE	330U	METHYL BUTYL KETONE
130U	METHYLENE CHLORIDE	130U	DIBROMOCHLOROMETHANE
130U	TRANS-1,2-DICHLOROETHENE	130U	CHLOROBENZENE
130U	1,1-DICHLOROETHANE	130U	1,1,1,2-TETRACHLOROETHANE
130U	CIS-1,2-DICHLOROETHENE	130U	ETHYL BENZENE
130U	2,2-DICHLOROPROPANE	130U	(M- AND/OR P-) XYLENE
1300U	METHYL ETHYL KETONE	130U	O-XYLENE
130U	BROMOCHLOROMETHANE	130U	STYRENE
130U	CHLOROFORM	130U	BROMOFORM
130U	1,1,1-TRICHLOROETHANE	130U	BROMOBENZENE
130U	1,1-DICHLOROPROPENE	130U	1,1,2,2-TETRACHLOROETHANE
130U	CARBON TETRACHLORIDE	130U	1,2,3-TRICHLOROPROPANE
130U	1,2-DICHLOROETHANE	130U	O-CHLOROTOLUENE
130U	BENZENE	130U	P-CHLOROTOLUENE
130U	TRICHLOROETHENE (TRICHLOROETHYLENE)	130U	1,3-DICHLOROBENZENE
130U	1,2-DICHLOROPROPANE	130U	1,4-DICHLOROBENZENE
130U	DIBROMOMETHANE	130U	1,2-DICHLOROBENZENE
130U	BROMODICHLOROMETHANE	4.7	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 133 SAMPLE TYPE: SOIL  
\*\*\* \*\* \*\* \*\* SOURCE: NAS PENSACOLA  
\*\*\* \*\* \*\* \*\* STATION ID: SF-T18-001  
\*\*\* \*\* \*\* \*\* COLLECTION START: 10/19/95 0910 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\* ST: FL

ANALYTICAL RESULTS

MG/KG  
2000 CALCIUM  
730 MAGNESIUM  
7900 IRON  
660 SODIUM  
4000 POTASSIUM  
8 PERCENT MOISTURE

ANALYTICAL RESULTS

MG/KG  
2.00 SILVER  
6.00 ARSENIC  
NA BORON  
24 BARIUM  
1.00 BERYLLIUM  
1.00 CADMIUM  
2.00 COBALT  
12 CHROMIUM  
32 COPPER  
2.00 MOLYBDENUM  
4.00 NICKEL  
320 LEAD  
6.00 ANTIMONY  
8.00 SELENIUM  
5.00 TIN  
5.3 STRONTIUM  
100 TELLURIUM  
120 TITANIUM  
200 THALLIUM  
19 VANADIUM  
4.8 YTTRIUM  
66 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
13000 ALUMINUM  
380 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96 0002 SAMPLE NO. 132 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF T17-001  
CITY: PENSACOLA  
COLLECTION START: 10/19/95 0910 STOP: 00/00/00  
ST: FL

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
38000	(3-AND/OR 4-) METHYLPHENOL	38000	BENZO(CHI)PERYLENE
38000	1,2,4-TRICHLOROBENZENE	38000	BENZO-A PYRENE
38000	2,2'-CHLOROISOPROPYLETHET	38000	BENZYL RUTYL PHTHALATE
38000	2,3,4,6-TETRACHLOROPHENOL	38000	BIS(2 CHLOROETHOXY) METHANE
38000	2,4,5-TRICHLOROPHENOL	38000	BIS(2 CHLOROETHYL) ETHER
38000	2,4,6-TRICHLOROPHENOL	38000	BIS(2-ETHYLHEXYL) PHTHALATE
38000	2,4-DICHLOROPHENOL	38000	CARBAZOLE
38000	2,4-DIMETHYLPHENOL	38000	CHRYSENE
75000	2,4-DINITROPHENOL	38000	DI-N-BUTYLPHTHALATE
38000	2,4-DINITROTOLUENE	38000	DI-N-OCTYLPHTHALATE
38000	2,6-DINITROTOLUENE	38000	DIBENZO(A,H)ANTHRACENE
38000	2-CHLORONAPHTHALENE	38000	DIBENZOFURAN
38000	2 CHLOROPHENOL	38000	DIETHYL PHTHALATE
75000	2 METHYL-4,6-DINITROPHENOL	38000	DIMETHYL PHTHALATE
38000	2 METHYLNAPHTHALENE	38000	FLUORANTHENE
38000	2 METHYLPHENOL	38000	FLUORENE
38000	2 NITROANILINE	38000	HEXACHLOROBENFENE (HCB)
38000	2-NITROPHENOL	38000	HEXACHLOROBUTADIENE
38000	3,3'-DICHLOROBENZIDINE	38000	HEXACHLOROCYCLOPENTADIENE (HCCP)
38000	3 NITROANILINE	38000	HEXACHLOROETHANE
38000	4 BROMOPHENYL PHENYL ETHER	38000	INDENO (1,2,3 CD) PYRENE
38000	4 CHLORO-3-METHYLPHENOL	38000	ISOPHORONE
38000	4 CHLOROANILINE	38000	N-NITROSODI N PROPYLAMINE
38000	4 CHLOROPHENYL PHENYL ETHER	38000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
38000	4 NITROANILINE	38000	NAPHTHALENE
75000	4 NITROPHENOL	38000	NITROBENZENE
38000	ACENAPHTHENE	75000	PENTACHLOROPHENOL
38000	ACENAPHTHYLENE	38000	PHENANTHRENE
38000	ANTHRACENE	38000	PHENOL
38000	BENZO(A)ANTHRACENE	38000	PYRENE
470J	BENZO(B AND/OR K)FLUORANTHENE	5.4	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002    SAMPLE NO. 133    SAMPLE TYPE: SOIL    PROG ELEM: SSF    COLLECTED BY: F SLOAN    \*\*  
SOURCE: NAS PENSACOLA    CITY: PENSACOLA    COLLECTION START: 10/19/95    0910    STOP: 00/00/00    \*\*  
STATION ID: SF-T18-001    \*\*

RESULTS    UNITS    PARAMETER  
0.22U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE    \*NA-NOT ANALYZED    \*NAI-INTERFERENCES    \*J-ESTIMATED VALUE    \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN    \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS M  
EPA-REGION IV ESL  
EMENT SYSTEM  
HENS, GA.

1. /95

PESTICIDES/PCB DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 133 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T18-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0910 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

500U	ALDRIN	500U	PCB-1232 (AROCLO 1232)
500U	HEPTACHLOR	500U	PCB-1248 (AROCLO 1248)
500U	HEPTACHLOR EPOXIDE	83J	PCB-1260 (AROCLO 1260)
500U	ALPHA-BHC	500U	PCB-1016 (AROCLO 1016)
500U	BETA-BHC	3000U	TOXAPHENE
500U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
500U	DELTA-BHC	--	ALPHA-CHLORDENE /2
500U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
500U	DIELDRIN	--	GAMMA-CHLORDENE /2
500U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
500U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
500U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
500U	ENDRIN	--	CIS-NONACHLOR /2
500U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLORPOXIDE) /2
500U	ENDOSULFAN SULFATE	200U	METHOXYCHLOR
200U	CHLORDANE (TECH. MIXTURE) /1	50U	ENDRIN KETONE
500U	PCB-1242 (AROCLO 1242)	8.3	PERCENT MOISTURE
500U	PCB-1254 (AROCLO 1254)		
500U	PCB-1221 (AROCLO 1221)		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 133 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T18-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/19/95 0910 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

3600U	(3-AND/OR 4-) METHYLPHENOL	3600U	BENZO (GHI) PERYLENE
3600U	1,2,4-TRICHLOROBENZENE	3600U	BENZO-A-PYRENE
3600U	2,2'-CHLOROISOPROPYLETHYER	3600U	BENZYL BUTYL PHTHALATE
3600U	2,3,4,6-TETRACHLOROPHENOL	3600U	BIS (2-CHLOROETHOXY) METHANE
3600U	2,4,5-TRICHLOROPHENOL	3600U	BIS (2-CHLOROETHYL) ETHER
3600U	2,4,6-TRICHLOROPHENOL	3600U	BIS (2-ETHYLHEXYL) PHTHALATE
3600U	2,4-DICHLOROPHENOL	3600U	CARBAZOLE
3600U	2,4-DIMETHYLPHENOL	3600U	CHRYSENE
7300U	2,4-DINITROPHENOL	3600U	DI-N-BUTYLPHTHALATE
3600U	2,4-DINITROTOLUENE	3600U	DI-N-OCTYLPHTHALATE
3600U	2,6-DINITROTOLUENE	3600U	DIBENZO (A,H) ANTHRACENE
3600U	2-CHLORONAPHTHALENE	3600U	DIBENZOFURAN
3600U	2-CHLOROPHENOL	3600U	DIETHYL PHTHALATE
7300U	2-METHYL-4,6-DINITROPHENOL	3600U	DIMETHYL PHTHALATE
3600U	2-METHYLNAPHTHALENE	3600U	FLUORANTHENE
3600U	2-METHYLPHENOL	3600U	FLUORENE
3600U	2-NITROANILINE	3600U	HEXACHLOROBENZENE (HCB)
3600U	2-NITROPHENOL	3600U	HEXACHLOROBUTADIENE
3600U	3,3'-DICHLOROBENZIDINE	3600U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3600U	3-NITROANILINE	3600U	HEXACHLOROETHANE
3600U	4-BROMOPHENYL PHENYL ETHER	3600U	INDENO (1,2,3-CD) PYRENE
3600U	4-CHLORO-3-METHYLPHENOL	3600U	ISOPHORONE
3600U	4-CHLOROANILINE	3600U	N-NITROSODI-N-PROPYLAMINE
3600U	4-CHLOROPHENYL PHENYL ETHER	3600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3600U	4-NITROANILINE	3600U	NAPHTHALENE
7300U	4-NITROPHENOL	3600U	NITROBENZENE
3600U	ACENAPHTHENE	7300U	PENTACHLOROPHENOL
3600U	ACENAPHTHYLENE	3600U	PHENANTHRENE
3600U	ANTHRACENE	3600U	PHENOL
3600U	BENZO (A) ANTHRACENE	3600U	PYRENE
3600U	BENZO (B AND/OR K) FLUORANTHENE	8.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE ORGANICS DATA REPORT

SAMPLE AND ANALYST  
EPA-REGION IV

MANAGEMENT SYSTEM  
ATHENS, GA.

\*\*\*

PROJECT NO. 96-0002

PROG ELEM: SSF

COLLECTED BY: F SLOAN

ST: FL

STOP: 00/00/00

\*\*\*

SOURCE: NAS PENSACOLA

CITY: PENSACOLA

COLLECTION START: 10/19/95

0910

\*\*\*

STATION ID: SF-T18-001

133

SAMPLE TYPE: SOIL

\*\*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

UG/KG

50U	CHLOROMETHANE	50U	CIS-1,3-DICHLOROPROPENE
50U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
50U	BROMOMETHANE	50U	TOLUENE
50U	CHLOROETHANE	50U	TRANS-1,3-DICHLOROPROPENE
50U	TRICHLOROFLUOROMETHANE	50U	1,1,2-TRICHLOROETHANE
50U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	50U	TETRACHLOROFTHENE(TETRACHLOROETHYLENE)
500U	ACETONE	50U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
50U	METHYLENE CHLORIDE	50U	DIBROMOCHLOROMETHANE
50U	TRANS-1,2-DICHLOROETHENE	50U	CHLOROBENZENE
50U	1,1-DICHLOROETHANE	50U	1,1,1,2-TETRACHLOROETHANE
50U	CIS-1,2-DICHLOROETHENE	50U	ETHYL BENZENE
50U	2,2-DICHLOROPROPANE	50U	(M- AND/OR P-) XYLENE
500U	METHYL ETHYL KETONE	50U	O-XYLENE
50U	BROMOCHLOROMETHANE	50U	STYRENE
50U	CHLOROFORM	50U	BROMOFORM
50U	1,1,1-TRICHLOROETHANE	50U	BROMOBENZENE
50U	1,1-DICHLOROPROPENE	50U	1,1,2,2-TETRACHLOROETHANE
50U	CARBON TETRACHLORIDE	50U	1,2,3-TRICHLOROPROPANE
50U	1,2-DICHLOROETHANE	50U	O-CHLOROTOLUENE
50U	BENZENE	50U	P-CHLOROTOLUENE
50U	TRICHLOROETHENE(TRICHLOROETHYLENE)	50U	1,3-DICHLORCBENZENE
50U	1,2-DICHLOROPROPANE	50U	1,4-DICHLORCBENZENE
50U	DIBROMOMETHANE	50U	1,2-DICHLORCBENZENE
50U	BROMODICHLOROMETHANE	8.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 134 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T19-001  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1035 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
4.00 SILVER	2000 CALCIUM
120 ARSENIC	100 MAGNESIUM
NA BORON	18000 IRON
6.1 BARIUM	4000 SODIUM
2.00 BERYLLIUM	8000 POTASSIUM
2.00 CADMIUM	11 PERCENT MOISTURE
4.00 COBALT	
33 CHROMIUM	
4.8 COPPER	
4.00 MOLYBDENUM	
8.00 NICKEL	
4.0 LEAD	
120 ANTIMONY	
160 SELENIUM	
100 TIN	
4.00 STRONTIUM	
200 TELLURIUM	
120 TITANIUM	
400 THALLIUM	
52 VANADIUM	
4.00 YTTRIUM	
4.00 ZINC	
NA ZIRCONIUM	
0.05U MERCURY	
32000 ALUMINUM	
9.4 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SPECIFIED ANALYSIS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002                   SAMPLE NO.                   134                   SAMPLE TYPE: SOIL                   PROG ELEM: SSF                   COLLECTED BY: F SLOAN                   \*\*\*  
\*\* SOURCE: NAS PENSACOLA                   CITY: PENSACOLA                   ST: FL                   STOP: 00/00/00                   \*\*\*  
\*\* STATION ID: SF-T19-001                   COLLECTION START: 10/19/95                   1035                   \*\*\*  
\*\*\*

RESULTS                   UNITS                   PARAMETER  
0.22U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE                   \*NA-NOT ANALYZED                   \*NAI-INTERFERENCES                   \*J-ESTIMATED VALUE                   \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN                   \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 134 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T19-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1035 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
51U	CHLOROMETHANE	51U	CIS-1,3-DICHLOROPROPENE
51U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
51U	BROMOMETHANE	51U	TOLUENE
51U	CHLOROETHANE	51U	TRANS-1,3-DICHLOROPROPENE
51U	TRICHLOROFLUOROMETHANE	51U	1,1,2-TRICHLOROETHANE
51U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	51U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
51U	ACETONE	51U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
51U	METHYLENE CHLORIDE	51U	DIBROMOCHLOROMETHANE
51U	TRANS-1,2-DICHLOROETHENE	51U	CHLOROBENZENE
51U	1,1-DICHLOROETHANE	51U	1,1,1,2-TETRACHLOROETHANE
51U	CIS-1,2-DICHLOROETHENE	51U	ETHYL BENZENE
51U	2,2-DICHLOROPROPANE	51U	(M- AND/OR P-) XYLENE
51U	METHYL ETHYL KETONE	51U	O-XYLENE
51U	BROMOCHLOROMETHANE	51U	STYRENE
51U	CHLOROFORM	51U	BROMOFORM
51U	1,1,1-TRICHLOROETHANE	51U	BROMOBENZENE
51U	1,1-DICHLOROPROPENE	51U	1,1,2,2-TETRACHLOROETHANE
51U	CARBON TETRACHLORIDE	51U	1,2,3-TRICHLOROPROPANE
51U	1,2-DICHLOROETHANE	51U	O-CHLOROTOLUENE
51U	BENZENE	51U	P-CHLOROTOLUENE
51U	TRICHLOROETHENE (TRICHLOROETHYLENE)	51U	1,3-DICHLOROBENZENE
51U	1,2-DICHLOROPROPANE	51U	1,4-DICHLOROBENZENE
51U	DIBROMOMETHANE	51U	1,2-DICHLOROBENZENE
51U	BROMODICHLOROMETHANE	10.4	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* PROJECT NO. 96-0002 SAMPLE NO. 135 SAMPLE TYPE: SOIL  
\*\* \*\* \*\* \*\* SOURCE: NAS PENSACOLA  
\*\* \*\* \*\* \*\* STATION ID: SF-T20-001  
\*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1325 STOP: 00/00/00

ANALYTICAL RESULTS

MG/KG

ANALYTICAL RESULTS

4.00 SILVER 5800A CALCIUM  
12U ARSENIC 850A MAGNESIUM  
NA BORON 16000 IRON  
15 BARIUM 400U SODIUM  
2.0U BERYLLIUM 800U POTASSIUM  
2.0U CADMIUM 10 PERCENT MOISTURE  
4.0U COBALT  
30 CHROMIUM  
7.0 COPPER  
4.0U MOLYBDENUM  
8.0U NICKEL  
22 LEAD  
12U ANTIMONY  
16U SELENIUM  
10U TIN  
15A STRONTIUM  
20U TELLURIUM  
110 TITANIUM  
40U THALLIUM  
48 VANADIUM  
4.0U YTTRIUM  
14 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
28000 ALUMINUM  
50 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS M  
EPA-REGION IV ESD,  
HENS, GA.

SPECIFIED ANALYSIS DATA REPORT

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SPECIAL ANALYSIS DATA REPORT
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** PROJECT NO:	96-0002	SAMPLE NO.	135	SAMPLE TYPE:	SOIL
** SOURCE:	NAS PENSACOLA				
** STATION ID:	SF-T20-001				
				PROG ELEM:	SSF COLLECTED BY: F SLOAN
				CITY:	PENSACOLA ST: FL
				COLLECTION START:	10/19/95 STOP: 00/00/00
*	*	*	*	*	*

RESULTS	UNITS	PARAMETER
0.22U	MG/KG	CYANIDE

\*\*FOOTNOTES\*\*  
 \*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96 0002 SAMPLE NO. 135 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF T20-001  
\*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* CITY: PENSACOLA  
\*\* COLLECTION START: 10/19/95 1325 STOP: 00/00/00  
\*\*  
\*\*\* \*\* \*\* \*\*~

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

UG/KG

4200U (3-AND/OR 4-)METHYLPHENOL  
4200U 1,2,4-TRICHLOROBENZENE  
4200U 2,2'-CHLOROISOPROPYLETHER  
4200U 2,3,4,6-TETRACHLOROPHENOL  
4200U 2,4,5-TRICHLOROPHENOL  
4200U 2,4,6-TRICHLOROPHENOL  
4200U 2,4-DICHLOROPHENOL  
4200U 2,4-DIMETHYLPHENOL  
8300U 2,4-DINITROPHENOL  
4200U 2,4-DINITROTOLUENE  
4200U 2,6-DINITROTOLUENE  
4200U 2-CHLORONAPHTHALENE  
4200U 2-CHLOROPHENOL  
8300U 2-METHYL-4,6-DINITROPHENOL  
4200U 2-METHYLNAPHTHALENE  
4200U 2-METHYLPHENOL  
4200U 2-NITROANILINE  
4200U 2-NITROPHENOL  
4200U 3,3'-DICHLOROBENZIDINE  
4200U 3-NITROANILINE  
4200U 4-BROMOPHENYL PHENYL ETHER  
4200U 4-CHLORO-3-METHYLPHENOL  
4200U 4-CHLOROANILINE  
4200U 4-CHLOROPHENYL PHENYL ETHER  
4200U 4-NITROANILINE  
8300U 4-NITROPHENOL  
4200U ACENAPHTHENE  
4200U ACENAPHTHYLENE  
4200U ANTHRACENE  
4200U BENZO(A)ANTHRACENE  
4200U BENZO(B AND/OR K)FLUORANTHENE

BENZO(GHI)PERYLENE  
BENZO-A-PYRENE  
BENZYL BUTYL PHTHALATE  
BIS(2-CHLOROETHOXY) METHANE  
BIS(2-CHLOROETHYL) ETHER  
BIS(2-ETHYLHEXYL) PHTHALATE  
CARBAZOLE  
CHRYSENE  
DI-N-BUTYLPHTHALATE  
DI-N-OCTYLPHTHALATE  
DIBENZO(A,H)ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHYL PHTHALATE  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE (HCB)  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE (HCCP)  
HEXACHLOROETHANE  
INDENO (1,2,3-CD) PYRENE  
ISOPHORONE  
N-NITROSODI-N-PROPYLAMINE  
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
NAPHTHALENE  
NITROBENZENE  
PENTACHLOROPHENOL  
PHENANTHRENE  
PHENOL  
PYRENE  
PERCENT MOISTURE  
9.6

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 135 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T20-001  
\*\*  
\*\*\*  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
SAMPLE AND ANALYSIS GEMENT SYSTEM  
EPA-REGION IV ES. ATHENS, GA.  
11/16/95  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1325 STOP: 00/00/00  
\*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\*  
UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS  
UG/KG

50U	CHLOROMETHANE	50U	CIS-1,3-DICHLOROPROPENE
50U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
50U	BROMOMETHANE	50U	TOLUENE
50U	CHLOROETHANE	50U	TRANS-1,3-DICHLOROPROPENE
50U	TRICHLOROFLUOROMETHANE	50U	1,1,2-TRICHLOROETHANE
50U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	50U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
500U	ACETONE	50U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
50U	METHYLENE CHLORIDE	50U	DIBROMOCHLOROMETHANE
50U	TRANS-1,2-DICHLOROETHENE	50U	CHLOROBENZENE
50U	1,1-DICHLOROETHANE	50U	1,1,1,2-TETRACHLOROETHANE
50U	CIS-1,2-DICHLOROETHENE	50U	ETHYL BENZENE
50U	2,2-DICHLOROPROPANE	50U	(M- AND/OR P-) XYLENE
500U	METHYL ETHYL KETONE	50U	O-XYLENE
50U	BROMOCHLOROMETHANE	50U	STYRENE
50U	CHLOROFORM	50U	BROMOFORM
50U	1,1,1-TRICHLOROETHANE	50U	BROMOBENZENE
50U	1,1-DICHLOROPROPENE	50U	1,1,2,2-TETRACHLOROETHANE
50U	CARBON TETRACHLORIDE	50U	1,2,3-TRICHLOROPROPANE
50U	1,2-DICHLOROETHANE	50U	O-CHLOROTOLUENE
50U	BENZENE	50U	P-CHLOROTOLUENE
50U	TRICHLOROETHENE (TRICHLOROETHYLENE)	50U	1,3-DICHLOROBENZENE
50U	1,2-DICHLOROPROPANE	50U	1,4-DICHLOROBENZENE
50U	DIBROMOMETHANE	50U	1,2-DICHLOROBENZENE
50U	BROMODICHLOROMETHANE	9.6	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

12/15/95

4ETALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 137 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T22-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1435 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.0U SILVER 170 CALCIUM  
3.0U ARSENIC 16 MAGNESIUM  
NA BORON 170 IRON  
1.0U BARIUM 100U SODIUM  
0.50U BERYLLIUM 200U POTASSIUM  
0.50U CADMIUM 3 PERCENT MOISTURE  
2.1 COBALT

1.0U CHROMIUM  
1.0U COPPER  
1.0U MOLYBDENUM  
2.0U NICKEL  
4.0U LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
2.5U TIN  
1.0U STRONTIUM  
5.0U TELLURIUM  
1.6 TITANIUM  
10U THALLIUM  
1.0U VANADIUM  
1.0U YTTRIUM  
1.0U ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
44 ALUMINUM  
1.4 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS N EMENT SYSTEM 12. /95  
EPA REGION IV ESL HENS, GA.

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 137 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T22-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1435 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/08/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96 0002 SAMPLE NO. 137 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T22-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/19/95 1435 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS

2900U	3-AND/OR 4-METHYLPHENOL	2900U	BENZO(GH)PERYLENE
2900U	1,2,4-TRICHLOROBENZENE	2900U	BENZO-A-PYRENE
2900U	2,2'-CHLOROISOPROPYLETHYER	2900U	BENZYL BUTYL PHTHALATE
2900U	2,3,4,6-TETRACHLOROPHENOL	2900U	BIS(2-CHLOROETHOXY) METHANE
2900U	2,4,5-TRICHLOROPHENOL	2900U	BIS(2-CHLOROETHYL) ETHER
2900U	2,4,6-TRICHLOROPHENOL	2900U	BIS(2-ETHYLHEXYL) PHTHALATE
2900U	2,4-DICHLOROPHENOL	2900U	CARBAZOLE
2900U	2,4-DIMETHYLPHENOL	2900U	CHRYSENE
5900U	2,4-DINITROPHENOL	2900U	DI-N-BUTYLPHTHALATE
2900U	2,4-DINITROTOLUENE	2900U	DI-N-OCTYLPHTHALATE
2900U	2,6-DINITROTOLUENE	2900U	DIBENZO(A,H)ANTHRACENE
2900U	2-CHLORONAPHTHALENE	2900U	DIBENZOFURAN
2900U	2-CHLOROPHENOL	2900U	DIETHYL PHTHALATE
5900U	2-METHYL 4,6-DINITROPHENOL	2900U	DIMETHYL PHTHALATE
2900U	2-METHYLNAPHTHALENE	2900U	FLUORANTHENE
2900U	2-METHYLPHENOL	2900U	FLUORENE
2900U	2-NITROANILINE	2900U	HEXACHLOROBENZENE (HCB)
2900U	2-NITROPHENOL	2900U	HEXACHLOROBUTADIENE
2900U	3,3'-DICHLOROBENZIDINE	2900U	HEXACHLOROCYCLOPENTADIENE (HCCP)
2900U	3-NITROANILINE	2900U	HEXACHLOROETHANE
2900U	4-BROMOPHENYL PHENYL ETHER	2900U	INDENO (1,2,3-CD) PYRENE
2900U	4-CHLORO-3-METHYLPHENOL	2900U	ISOPHORONE
2900U	4-CHLOROANILINE	2900U	N-NITROSODI-N-PROPYLAMINE
2900U	4-CHLOROPHENYL PHENYL ETHER	2900U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
2900U	4-NITROANILINE	2900U	NAPHTHALENE
5900U	4-NITROPHENOL	2900U	NITROBENZENE
2900U	ACENAPHTHENE	5900U	PENTACHLOROPHENOL
2900U	ACENAPHTHYLENE	2900U	PHENANTHRENE
2900U	ANTHRACENE	2900U	PHENOL
2900U	BENZO(A)ANTHRACENE	2900U	PYRENE
2900U	BENZO(B AND/OR K)FLUORANTHENE	3.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE ORG...CS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 137  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T22-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1435 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
43U	CHLOROMETHANE	43U	CIS-1,3-DICHLOROPROPENE
43U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
43U	BROMOMETHANE	43U	TOLUENE
43U	CHLOROETHANE	43U	TRANS-1,3-DICHLOROPROPENE
43U	TRICHLOROFLUOROMETHANE	43U	1,1,2-TRICHLOROETHANE
43U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	43U	TETRACHLOROETHYLENE (TETRACHLOROETHYLENE)
430U	ACETONE	43U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
43U	METHYLENE CHLORIDE	43U	DIBROMOCHLOROMETHANE
43U	TRANS-1,2-DICHLOROETHENE	43U	CHLOROBENZENE
43U	1,1-DICHLOROETHANE	43U	1,1,1,2-TETRACHLOROETHANE
43U	CIS-1,2-DICHLOROETHENE	43U	ETHYL BENZENE
43U	2,2-DICHLOROPROPANE	43U	(M- AND/OR P-) XYLENE
430U	METHYL ETHYL KETONE	43U	O-XYLENE
43U	BROMOCHLOROMETHANE	43U	STYRENE
43U	CHLOROFORM	43U	BROMOFORM
43U	1,1,1-TRICHLOROETHANE	43U	BROMOBENZENE
43U	1,1-DICHLOROPROPENE	43U	1,1,2,2-TETRACHLOROETHANE
43U	CARBON TETRACHLORIDE	43U	1,2,3-TRICHLOROPROPANE
43U	1,2-DICHLOROETHANE	43U	O-CHLOROTOLUENE
43U	BENZENE	43U	P-CHLOROTOLUENE
43U	TRICHLOROETHENE (TRICHLOROETHYLENE)	43U	1,3-DICHLOROBENZENE
43U	1,2-DICHLOROPROPANE	43U	1,4-DICHLOROBENZENE
43U	DIBROMOMETHANE	43U	1,2-DICHLOROBENZENE
43U	BROMODICHLOROMETHANE	3.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 167 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T23-001  
\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 0840 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

2.0U SILVER 3500 CALCIUM  
3.2 ARSENIC 260 MAGNESIUM  
NA BORON 7000 IRON  
30 BARIUM 2000 SODIUM  
1.0U BERYLLIUM 4000 POTASSIUM  
1.3 CADMIUM 13 PERCENT MOISTURE  
2.0U COBALT  
12 CHROMIUM  
46 COPPER  
2.0U MOLYBDENUM  
4.8 NICKEL  
110 LEAD  
6.0U ANTIMONY  
8.0U SELENIUM  
9.7 TIN  
9.1 STRONTIUM  
10U TELLURIUM  
100 TITANIUM  
20U THALLIUM  
17 VANADIUM  
2.4 YTTRIUM  
140 ZINC  
NA ZIRCONIUM  
0.07 MERCURY  
11000 ALUMINUM  
100 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS  
EPA-REGION IV E.

AGEMENT SYSTEM  
ATHENS, GA.

18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T23-001

167  
SAMPLE TYPE: SOIL

PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/20/95 0840  
COLLECTED BY: J VAIL  
ST: FL  
STOP: 00/00/00

RESULTS

UNITS

PARAMETER

0.23U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 167 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T23-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 0840 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
50U ALDRIN		500U PCB-1232 (AROCOR 1232)	
50U HEPTACHLOR		500U PCB-1248 (AROCOR 1248)	
50U HEPTACHLOR EPOXIDE		500U PCB-1260 (AROCOR 1260)	
50U ALPHA-BHC		500U PCB-1016 (AROCOR 1016)	
50U BETA-BHC		3000U TOXAPHENE	
50U GAMMA-BHC (LINDANE)		-- CHLORDENE /2	
50U DELTA-BHC		-- ALPHA-CHLORDENE /2	
50U ENDOSULFAN I (ALPHA)		-- BETA CHLORDENE /2	
50U DIELDRIN		-- GAMMA-CHLORDENE /2	
50U 4,4'-DDT (P,P'-DDT)		-- GAMMA-CHLORDANE /2	
50U 4,4'-DDE (P,P'-DDE)		-- TRANS-NONACHLOR /2	
50U 4,4'-DDD (P,P'-DDD)		-- ALPHA-CHLORDANE /2	
50U ENDRIN		-- CIS-NONACHLOR /2	
50U ENDOSULFAN II (BETA)		-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2	
50U ENDOSULFAN SULFATE		200U METHOXYCHLOR	
200U CHLORDANE (TECH. MIXTURE) /1		50U ENDRIN KETONE	
500U PCB-1242 (AROCOR 1242)		9.7 PERCENT MOISTURE	
500U PCB-1254 (AROCOR 1254)			
500U PCB-1221 (AROCOR 1221)			

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS M/ MENT SYSTEM  
EPA-REGION IV ESD, JENS, GA.

11/ / 95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 167 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T23-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 0840 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

(3-AND/OR 4-) METHYLPHENOL  
1,2,4-TRICHLOROBENZENE  
2,2'-CHLOROISOPROPYLETHYER  
2,3,4,6-TETRACHLOROPHENOL  
2,4,5-TRICHLOROPHENOL  
2,4,6-TRICHLOROPHENOL  
2,4-DICHLOROPHENOL  
2,4-DIMETHYLPHENOL  
2,4-DINITROPHENOL  
2,4-DINITROTOLUENE  
2,6-DINITROTOLUENE  
2-CHLORONAPHTHALENE  
2-CHLOROPHENOL  
2-METHYL-4,6-DINITROPHENOL  
2-METHYLNAPHTHALENE  
2-METHYLPHENOL  
2-NITROANILINE  
2-NITROPHENOL  
3,3'-DICHLOROBENZIDINE  
3-NITROANILINE  
4-BROMOPHENYL PHENYL ETHER  
4-CHLORO-3-METHYLPHENOL  
4-CHLOROANILINE  
4-CHLOROPHENYL PHENYL ETHER  
4-NITROANILINE  
4-NITROPHENOL  
ACENAPHTHENE  
ACENAPHTHYLENE  
ANTHRACENE  
BENZO(A) ANTHRACENE  
BENZO(B AND/OR K) FLUORANTHENE

BENZO(GHI) PERYLENE  
BENZO-A-PYRENE  
BENZYL BUTYL PHTHALATE  
BIS(2-CHLOROETHOXY) METHANE  
BIS(2-CHLOROETHYL) ETHER  
BIS(2-ETHYLHEXYL) PHTHALATE  
CARBAZOLE  
CHRYSENE  
DI-N-BUTYLPHTHALATE  
DI-N-OCTYLPHTHALATE  
DIBENZO(A,H) ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHYL PHTHALATE  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE (HCB)  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE (HCCP)  
HEXACHLOROETHANE  
INDENO(1,2,3-CD) PYRENE  
ISOPHORONE  
N-NITROSODI-N-PROPYLAMINE  
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
NAPHTHALENE  
NITROBENZENE  
PENTACHLOROPHENOL  
PHENANTHRENE  
PHENOL  
PYRENE  
PERCENT MOISTURE  
9.8

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002    SAMPLE NO. 167    SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SF-T23-001

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM

EPA REGION IV ESD, ATHENS, GA.

12/04/95

PROG ELEM: SSF    COLLECTED BY: J VAIL

CITY: PENSACOLA    ST: FL

COLLECTION START: 10/20/95 0840    STOP: 00/00/00

ANALYTICAL RESULTS	
UG/KG	UG/KG
46U CHLOROMETHANE	CIS-1,3-DICHLOROPROPENE
46U VINYL CHLORIDE	METHYL ISOBUTYL KETONE
46U BROMOMETHANE	6.9J TOLUENE
46U CHLOROETHANE	TRANS-1,3-DICHLOROPROPENE
46U TRICHLOROFLUOROMETHANE	1,1,2-TRICHLOROETHANE
46U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
460U ACETONE	1,3-DICHLOROPROPANE
120U CARBON DISULFIDE	METHYL BUTYL KETONE
46U METHYLENE CHLORIDE	DIBROMOCHLOROMETHANE
46U TRANS-1,2-DICHLOROETHENE	CHLOROBENZENE
46U 1,1-DICHLOROETHANE	1,1,1,2-TETRACHLOROETHANE
46U CIS-1,2-DICHLOROETHENE	ETHYL BENZENE
46U 2,2-DICHLOROPROPANE	(M- AND/OR P-) XYLENE
460U METHYL ETHYL KETONE	O-XYLENE
46U BROMOCHLOROMETHANE	STYRENE
46U CHLOROFORM	BROMOFORM
46U 1,1,1-TRICHLOROETHANE	BROMOBENZENE
46U 1,1-DICHLOROPROPENE	1,1,2,2-TETRACHLOROETHANE
46U CARBON TETRACHLORIDE	1,2,3-TRICHLOROPROPANE
46U 1,2-DICHLOROETHANE	O-CHLOROTOLUENE
46U BENZENE	P-CHLOROTOLUENE
46U TRICHLOROETHENE (TRICHLOROETHYLENE)	1,3-DICHLOROBENZENE
46U 1,2-DICHLOROPROPANE	1,4-DICHLOROBENZENE
46U DIBROMOMETHANE	1,2-DICHLOROBENZENE
46U BROMODICHLOROMETHANE	PERCENT MOISTURE
	9.7

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE    \*NA-NOT ANALYZED    \*NAI-INTERFERENCES    \*J-ESTIMATED VALUE    \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN    \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 168 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T25-001

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 0945 STOP: 00/00/00

ANALYTICAL RESULTS	
MG/KG	MG/KG
1.00 SILVER	2000 CALCIUM
3.1 ARSENIC	410 MAGNESIUM
NA BORON	8800 IRON
16 BARIUM	1000 SODIUM
0.50U BERYLLIUM	200U POTASSIUM
0.50U CADMIUM	4 PERCENT MOISTURE
1.0U COBALT	
13 CHROMIUM	
7.3 COPPER	
1.0U MOLYBDENUM	
3.0U NICKEL	
160A LEAD	
3.0U ANTIMONY	
4.0U SELENIUM	
3.5U TIN	
5.2 STRONTIUM	
5.0U TELLURIUM	
97 TITANIUM	
10U THALLIUM	
19 VANADIUM	
2.1 YTTRIUM	
30 ZINC	
NA ZIRCONIUM	
0.05U MERCURY	
8700 ALUMINUM	
74 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 168 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T25-001  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 0945 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS ' GEMENT SYSTEM  
EPA-REGION IV ES ITHENS, GA.

1 /95

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 168 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T25-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 0945 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

50U ALDRIN	500U PCB-1232 (AROC'LOR 1232)
50U HEPTACHLOR	500U PCB-1248 (AROC'LOR 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROC'LOR 1260)
50U ALPHA-BHC	500U PCB-1016 (AROC'LOR 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
50U DELTA-BHC	-- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	-- BETA CHLORDENE /2
50U DIELDRIN	-- GAMMA-CHLORDENE /2
50U 4,4'-DDT (P,P'-DDT)	-- TRANS-NONACHLOR /2
50U 4,4'-DDE (P,P'-DDE)	-- ALPHA-CHLORDANE /2
50U 4,4'-DDD (P,P'-DDD)	-- CIS-NONACHLOR /2
50U ENDRIN	-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
50U ENDOSULFAN II (BETA)	-- METHOXYCHLOR
50U ENDOSULFAN SULFATE	200U ENDRIN KETONE
200U CHLORDANE (TECH. MIXTURE) /1	50U PERCENT MOISTURE
500U PCB-1242 (AROC'LOR 1242)	4.7
500U PCB-1254 (AROC'LOR 1254)	
500U PCB-1221 (AROC'LOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 168 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T25-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/20/95 0945 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS

3600U	(3-AND/OR 4-) METHYLPHENOL	3600U	BENZO (GHI) PERYLENE
3600U	1,2,4-TRICHLOROBENZENE	3600U	BENZO-A-PYRENE
3600U	2,2'-CHLOROISOPROPYLETHYER	3600U	BENZYL BUTYL PHTHALATE
3600U	2,3,4,6-TETRACHLOROPHENOL	3600U	BIS(2-CHLOROETHOXY) METHANE
3600U	2,4,5-TRICHLOROPHENOL	3600U	BIS(2-CHLOROETHYL) ETHER
3600U	2,4,6-TRICHLOROPHENOL	3600U	BIS(2-ETHYLHEXYL) PHTHALATE
3600U	2,4-DICHLOROPHENOL	3600U	CARBAZOLE
3600U	2,4-DIMETHYLPHENOL	3600U	CHRYSENE
7100U	2,4-DINITROPHENOL	3600U	DI-N-BUTYLPHTHALATE
3600U	2,4-DINITROTOLUENE	3600U	DI-N-OCTYLPHTHALATE
3600U	2,6-DINITROTOLUENE	3600U	DIBENZO(A,H)ANTHRACENE
3600U	2-CHLORONAPHTHALENE	3600U	DIBENZOFURAN
3600U	2-CHLOROPHENOL	3600U	DIETHYL PHTHALATE
7100U	2-METHYL-4,6-DINITROPHENOL	3600U	DIMETHYL PHTHALATE
3600U	2-METHYLNAPHTHALENE	3600U	FLUORANTHENE
3600U	2-METHYLPHENOL	3600U	FLUORENE
3600U	2-NITROANILINE	3600U	HEXACHLOROBENZENE (HCB)
3600U	2-NITROPHENOL	3600U	HEXACHLOROBUTADIENE
3600U	3,3'-DICHLOROBENZIDINE	3600U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3600U	3-NITROANILINE	3600U	HEXACHLOROETHANE
3600U	4-BROMOPHENYL PHENYL ETHER	3600U	INDENO (1,2,3-CD) PYRENE
3600U	4-CHLORO-3-METHYLPHENOL	3600U	ISOPHORONE
3600U	4-CHLOROANILINE	3600U	N-NITROSODI-N-PROPYLAMINE
3600U	4-CHLOROPHENYL PHENYL ETHER	3600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3600U	4-NITROANILINE	3600U	NAPHTHALENE
7100U	4-NITROPHENOL	3600U	NITROBENZENE
3600U	ACENAPHTHENE	7100U	PENTACHLOROPHENOL
3600U	ACENAPHTHYLENE	3600U	PHENANTHRENE
3600U	ANTHRACENE	3600U	PHENOL
3600U	BENZO(A)ANTHRACENE	3600U	PYRENE
3600U	BENZO(B AND/OR K)FLUORANTHENE	4.7	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS

EPA-REGION IV

ANAGEMENT SYSTEM

, ATHENS, GA.

PROJECT NO. 96-0002

SAMPLE NO. 168

SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SF-T25-001

PROG ELEM: SSF

COLLECTED BY: J VAIL

CITY: PENSACOLA

ST: FL

COLLECTION START: 10/20/95

0945

STOP: 00/00/00

./04/95

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
44U	CHLOROMETHANE	44U	CIS-1,3-DICHLOROPROPENE
44U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
44U	BROMOMETHANE	44U	TOLUENE
44U	CHLOROETHANE	44U	TRANS-1,3-DICHLOROPROPENE
44U	TRICHLOROFLUOROMETHANE	44U	1,1,2-TRICHLOROETHANE
44U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	44U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
44U	ACETONE	44U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
44U	METHYLENE CHLORIDE	44U	DIBROMOCHLOROMETHANE
44U	TRANS-1,2-DICHLOROETHENE	44U	CHLOROBENZENE
44U	1,1-DICHLOROETHANE	44U	1,1,1,2-TETRACHLOROETHANE
44U	CIS-1,2-DICHLOROETHENE	44U	ETHYL BENZENE
44U	2,2-DICHLOROPROPANE	44U	(M- AND/OR P-) XYLENE
44U	METHYL ETHYL KETONE	44U	O-XYLENE
44U	BROMOCHLOROMETHANE	44U	STYRENE
44U	CHLOROFORM	44U	BROMOFORM
44U	1,1,1-TRICHLOROETHANE	44U	BROMOBENZENE
44U	1,1-DICHLOROPROPENE	44U	1,1,2,2-TETRACHLOROETHANE
44U	CARBON TETRACHLORIDE	44U	1,2,3-TRICHLOROPROPANE
44U	1,2-DICHLOROETHANE	44U	O-CHLOROTOLUENE
44U	BENZENE	44U	P-CHLOROTOLUENE
44U	TRICHLOROETHENE (TRICHLOROETHYLENE)	44U	1,3-DICHLOROBENZENE
44U	1,2-DICHLOROPROPANE	44U	1,4-DICHLOROBENZENE
44U	DIBROMOMETHANE	44U	1,2-DICHLOROBENZENE
44U	BROMODICHLOROMETHANE	4.7	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 169 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T26-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1415 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.0U SILVER 1400 CALCIUM  
3.0U ARSENIC 96 MAGNESIUM  
NA BORON 260 IRON  
6.6 BARIUM 100U SODIUM  
0.50U BERYLLIUM 200U POTASSIUM  
0.50U CADMIUM 6 PERCENT MOISTURE  
2.1 COBALT  
1.0U CHROMIUM  
3.2 COPPER  
1.0U MOLYBDENUM  
2.0U NICKEL  
43 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
3.5U TIN  
4.6 STRONTIUM  
5.0U TELLURIUM  
7.7 TITANIUM  
10U THALLIUM  
1.0U VANADIUM  
1.0U YTTRIUM  
9.4 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
230 ALUMINUM  
6.1 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS  
EPA REGION IV ES.

AGEMENT SYSTEM  
ATHENS, GA.

11/18/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 169  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T26-001

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1415 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 169 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T26-001  
\*\*  
\*\*\* \*\* \*\* \*\* \*\*  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1415 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

27000 (3-AND/OR 4-)METHYLPHENOL  
27000 1,2,4-TRICHLOROBENZENE  
27000 2,2'-CHLOROISOPROPYLEETHER  
27000 2,3,4,6-TETRACHLOROPHENOL  
27000 2,4,5-TRICHLOROPHENOL  
27000 2,4,6-TRICHLOROPHENOL  
27000 2,4-DICHLOROPHENOL  
27000 2,4-DIMETHYLPHENOL  
55000 2,4-DINITROPHENOL  
27000 2,4-DINITROTOLUENE  
27000 2,6-DINITROTOLUENE  
27000 2-CHLORONAPHTHALENE  
27000 2-CHLOROPHENOL  
55000 2-METHYL-4,6-DINITROPHENOL  
27000 2-METHYLNAPHTHALENE  
27000 2-METHYLPHENOL  
27000 2-NITROANILINE  
27000 2-NITROPHENOL  
27000 3,3'-DICHLOROBENZIDINE  
27000 3-NITROANILINE  
27000 4-BROMOPHENYL PHENYL ETHER  
27000 4-CHLORO-3-METHYLPHENOL  
27000 4-CHLOROANILINE  
27000 4-CHLOROPHENYL PHENYL ETHER  
27000 4-NITROANILINE  
55000 4-NITROPHENOL  
27000 ACENAPHTHENE  
27000 ACENAPHTHYLENE  
27000 ANTHRACENE  
27000 BENZO(A)ANTHRACENE  
27000 BENZO(B AND/OR K)FLUORANTHENE

27000 BENZO(GHI)PERYLENE  
27000 BENZO-A-PYRENE  
27000 BENZYL BUTYL PHTHALATE  
27000 BIS(2-CHLOROETHOXY) METHANE  
27000 BIS(2-CHLOROETHYL) ETHER  
27000 BIS(2-ETHYLHEXYL) PHTHALATE  
27000 CARBAZOLE  
27000 CHRYSENE  
27000 DI-N-BUTYLPHTHALATE  
27000 DI-N-OCTYLPHTHALATE  
27000 DIBENZO(A,H)ANTHRACENE  
27000 DIBENZOFURAN  
27000 DIETHYL PHTHALATE  
27000 DIMETHYL PHTHALATE  
27000 FLUORANTHENE  
27000 FLUORENE  
27000 HEXACHLOROBENZENE (HCB)  
27000 HEXACHLOROBUTADIENE  
27000 HEXACHLOROCYCLOPENTADIENE (HCCP)  
27000 HEXACHLOROETHANE  
27000 INDENO (1,2,3-CD) PYRENE  
27000 ISOPHORONE  
27000 N-NITROSODI-N-PROPYLAMINE  
27000 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
27000 NAPHTHALENE  
27000 NITROBENZENE  
55000 PENTACHLOROPHENOL  
27000 PHENANTHRENE  
27000 PHENOL  
27000 PYRENE  
4.8 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 169 SAMPLE TYPE: SOIL

\*\*\* SOURCE: NAS PENSACOLA

\*\*\* STATION ID: SF-T26-001

\*\*\* PROG ELEM: SSF COLLECTED BY: J VAIL

\*\*\* CITY: PENSACOLA ST: FL

\*\*\* COLLECTION START: 10/20/95 1415 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
44U	CHLOROMETHANE	44U	CIS-1,3-DICHLOROPROPENE
44U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
44U	BROMOMETHANE	44U	TOLUENE
44U	CHLOROETHANE	44U	TRANS-1,3-DICHLOROPROPENE
44U	TRICHLOROFLUOROMETHANE	44U	1,1,2-TRICHLOROETHANE
44U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	44U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
44U	ACETONE	44U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
44U	METHYLENE CHLORIDE	44U	DIBROMOCHLOROMETHANE
44U	TRANS-1,2-DICHLOROETHENE	44U	CHLOROBENZENE
44U	1,1-DICHLOROETHANE	44U	1,1,1,2-TETRACHLOROETHANE
44U	CIS-1,2-DICHLOROETHENE	44U	ETHYL BENZENE
44U	2,2-DICHLOROPROPANE	44U	(M- AND/OR P-) XYLENE
44U	METHYL ETHYL KETONE	44U	O-XYLENE
44U	BROMOCHLOROMETHANE	44U	STYRENE
44U	CHLOROFORM	44U	BROMOFORM
44U	1,1,1-TRICHLOROETHANE	44U	BROMOBENZENE
44U	1,1-DICHLOROPROPENE	44U	1,1,2,2-TETRACHLOROETHANE
44U	CARBON TETRACHLORIDE	44U	1,2,3-TRICHLOROPROPANE
44U	1,2-DICHLOROETHANE	44U	O-CHLOROTOLUENE
44U	BENZENE	44U	P-CHLOROTOLUENE
44U	TRICHLOROETHENE(TRICHLOROETHYLENE)	44U	1,3-DICHLOROBENZENE
44U	1,2-DICHLOROPROPANE	44U	1,4-DICHLOROBENZENE
44U	DIBROMOMETHANE	44U	1,2-DICHLOROBENZENE
44U	BROMODICHLOROMETHANE	4.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 170 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T27-001

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1300 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
1.00 SILVER	1100 CALCIUM
3.00 ARSENIC	48 MAGNESIUM
NA BORON	210 IRON
2.8 BARIUM	100U SODIUM
0.50U BERYLLIUM	200U POTASSIUM
0.50U CADMIUM	4 PERCENT MOISTURE
1.9 COBALT	
1.0U CHROMIUM	
1.0U COPPER	
1.0U MOLYBDENUM	
2.0U NICKEL	
9.8 LEAD	
3.0U ANTIMONY	
4.0U SELENIUM	
3.0U TIN	
4.7 STRONTIUM	
5.0U TELLURIUM	
4.8 TITANIUM	
10U THALLIUM	
1.0U VANADIUM	
1.0U YTTRIUM	
5.0 ZINC	
NA ZIRCONIUM	
0.05U MERCURY	
190 ALUMINUM	
3.0 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS  
EPA-REGION IV ES

GEMENT SYSTEM  
THENS, GA.

1. 8/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 170  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T27-001

PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/20/95 1300 STOP: 00/00/00

COLLECTED BY: J VAIL  
ST: FL

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NAI-INTERFERENCES  
\*NA-NOT ANALYZED  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*J-ESTIMATED VALUE  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL



## 11/27/95

## 11/27/95

11/27/95

11/27/95

11/27/95

\*\*\*REMARKS\*\*\*

FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN				
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

PURGEABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS EPA-REGION IV 1

VAGEMENT SYSTEM ATHENS, GA.

04/95

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 170 SAMPLE TYPE: SOIL

\*\*\* SOURCE: NAS PENSACOLA

\*\*\* STATION ID: SF-T27-001

\*\*\* COLLECTION START: 10/20/95 1300 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
45U	CHLOROMETHANE	45U	CIS-1,3-DICHLOROPROPENE
45U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
45U	BROMOMETHANE	45U	TOLUENE
45U	CHLOROETHANE	45U	TRANS-1,3-DICHLOROPROPENE
45U	TRICHLOROFLUOROMETHANE	45U	1,1,2-TRICHLOROETHANE
45U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	45U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
450U	ACETONE	45U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
45U	METHYLENE CHLORIDE	45U	DIBROMOCHLOROMETHANE
45U	TRANS-1,2-DICHLOROETHENE	45U	CHLOROBENZENE
45U	1,1-DICHLOROETHANE	45U	1,1,1,2-TETRACHLOROETHANE
45U	CIS-1,2-DICHLOROETHENE	45U	ETHYL BENZENE
45U	2,2-DICHLOROPROPANE	45U	(M- AND/OR P-) XYLENE
450U	METHYL ETHYL KETONE	45U	O-XYLENE
45U	BROMOCHLOROMETHANE	45U	STYRENE
45U	CHLOROFORM	45U	BROMOFORM
45U	1,1,1-TRICHLOROETHANE	45U	BROMOBENZENE
45U	1,1-DICHLOROPROPENE	45U	1,1,2,2-TETRACHLOROETHANE
45U	CARBON TETRACHLORIDE	45U	1,2,3-TRICHLOROPROPANE
45U	1,2-DICHLOROETHANE	45U	O-CHLOROTOLUENE
45U	BENZENE	45U	P-CHLOROTOLUENE
45U	TRICHLOROETHENE (TRICHLOROETHYLENE)	45U	1,3-DICHLOROBENZENE
45U	1,2-DICHLOROPROPANE	45U	1,4-DICHLOROBENZENE
45U	DIBROMOMETHANE	45U	1,2-DICHLOROBENZENE
45U	BROMODICHLOROMETHANE	6.7	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 171 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T28-001  
\*\* \*\* \*\* \*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1545 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.0U SILVER  
3.0U ARSENIC  
NA BORON  
1.0U BARIUM  
0.50U BERYLLIUM  
0.50U CADMIUM  
1.0U COBALT  
1.0U CHROMIUM  
1.0U COPPER  
1.0U MOLYBDENUM  
2.0U NICKEL  
4.0U LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
3.0U TIN  
1.0U STRONTIUM  
5.0U TELLURIUM  
2.4 TITANIUM  
10U THALLIUM  
1.0U VANADIUM  
1.0U YTTRIUM  
1.0U ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
39 ALUMINUM  
1.0U MANGANESE

170 CALCIUM  
150 MAGNESIUM  
34 IRON  
100U SODIUM  
200U POTASSIUM  
2 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 171 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T28-001

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1545 STOP: 00/00/00

RESULTS UNITS PARAMETER

0.20U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 171 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T28-001  
\*\*  
\*\*\* \*\* \*\* \*\* \* \* \* \* \* ANALYTICAL RESULTS  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1545 STOP: 00/00/00

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2700U	(3-AND/OR 4-) METHYLPHENOL	2700U	BENZO (GHI) PERYLENE
2700U	1,2,4-TRICHLOROBENZENE	2700U	BENZO-A-PYRENE
2700U	2,2'-CHLOROISOPROPYLETHYER	2700U	BENZYL BUTYL PHTHALATE
2700U	2,3,4,6-TETRACHLOROPHENOL	2700U	BIS(2-CHLOROETHOXY) METHANE
2700U	2,4,5-TRICHLOROPHENOL	2700U	BIS(2-CHLOROETHYL) ETHER
2700U	2,4,6-TRICHLOROPHENOL	2700U	BIS(2-ETHYLHEXYL) PHTHALATE
2700U	2,4-DICHLOROPHENOL	2700U	CARBAZOLE
2700U	2,4-DIMETHYLPHENOL	2700U	CHRYSENE
5300U	2,4-DINITROPHENOL	2700U	DI-N-BUTYLPHTHALATE
2700U	2,4-DINITROPHENOL	2700U	DI-N-OCTYLPHTHALATE
2700U	2,4-DINITROTOLUENE	2700U	DIBENZO(A,H) ANTHRACENE
2700U	2,6-DINITROTOLUENE	2700U	DIBENZOFURAN
2700U	2-CHLORONAPHTHALENE	2700U	DIETHYL PHTHALATE
2700U	2-CHLOROPHENOL	2700U	DIMETHYL PHTHALATE
5300U	2-METHYL-4,6-DINITROPHENOL	2700U	FLUORANTHENE
2700U	2-METHYLNAPHTHALENE	2700U	FLUORENE
2700U	2-METHYLPHENOL	2700U	HEXACHLOROBENZENE (HCB)
2700U	2-NITROANILINE	2700U	HEXACHLOROBUTADIENE
2700U	2-NITROPHENOL	2700U	HEXACHLOROCYCLOPENTADIENE (HCCP)
2700U	3,3'-DICHLOROBENZIDINE	2700U	HEXACHLOROETHANE
2700U	3-NITROANILINE	2700U	INDENO (1,2,3-CD) PYRENE
2700U	4-BROMOPHENYL PHENYL ETHER	2700U	ISOPHORONE
2700U	4-CHLORO-3-METHYLPHENOL	2700U	N-NITROSODI-N PROPYLAMINE
2700U	4-CHLOROANILINE	2700U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
2700U	4-CHLOROPHENYL PHENYL ETHER	2700U	NAPHTHALENE
2700U	4-NITROANILINE	2700U	NITROBENZENE
5300U	4-NITROPHENOL	5300U	PENTACHLOROPHENOL
2700U	ACENAPHTHENE	2700U	PHENANTHRENE
2700U	ACENAPHTHYLENE	2700U	PHENOL
2700U	ANTHRACENE	2700U	PYRENE
2700U	BENZO(A) ANTHRACENE	2.2	PERCENT MOISTURE
2700U	BENZO(B AND/OR K) FLUORANTHENE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS METHOD	SYSTEM
EPA REGION IV ESD HENS, GA.	12 95

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Purgeable Organics Data Report
** ** ** ** **
** PROJECT NO. 96-0002 SAMPLE NO. 171 SAMPLE TYPE: SOIL          PROG ELEM: SSF   COLLECTED BY: J VAIL
** SOURCE: NAS PENSACOLA              CITY: PENSACOLA      ST: FL
** STATION ID: SF-T28-001             COLLECTION START: 10/20/95 1545 STOP: 00/00/00

```

	***	**	*	+	-	NC	%	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
	***	**	*	+	-	NC	%			

43U	CHLOROMETHANE	43U	CIS-1,3-DICHLOROPROPENE
43U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
43U	BROMOMETHANE	43U	TOLUENE
43U	CHLOROETHANE	43U	TRANS-1,3-DICHLOROPROPENE
43U	TRICHLOROFLUOROMETHANE	43U	1,1,2-TRICHLOROETHANE
43U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	43U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
43U	ACETONE	43U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
43U	METHYLENE CHLORIDE	43U	DIBROMOCHLOROMETHANE
43U	TRANS-1,2-DICHLOROETHENE	43U	CHLOROBENZENE
43U	1,1-DICHLOROETHANE	43U	1,1,1,2-TETRACHLOROETHANE
43U	CIS-1,2-DICHLOROETHENE	43U	ETHYL BENZENE
43U	2,2-DICHLOROPROPANE	43U	(M- AND/OR P-)XYLENE
430U	METHYL ETHYL KETONE	43U	O-XYLENE
43U	BROMOCHLOROMETHANE	43U	STYRENE
43U	CHLOROFORM	43U	BROMOFORM
43U	1,1,1-TRICHLOROETHANE	43U	BROMOBENZENE
43U	1,1-DICHLOROPROPENE	43U	1,1,2,2-TETRACHLOROETHANE
43U	CARBON TETRACHLORIDE	43U	1,2,3-TRICHLOROPROPANE
43U	1,2-DICHLOROETHANE	43U	O-CHLOROTOLUENE
43U	BENZENE	43U	P-CHLOROTOLUENE
43U	TRICHLOROETHENE(TRICHLOROETHYLENE)	43U	1,3-DICHLOROBENZENE
43U	1,2-DICHLOROPROPANE	43U	1,4-DICHLOROBENZENE
43U	DIBROMOMETHANE	43U	1,2-DICHLOROBENZENE
43U	BROMODICHLOROMETHANE	2.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*II-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/15/95

METALS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 173 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T31-001

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/28/95 1010 STOP: 00/00/00

ANALYTICAL RESULTS									
MG/KG									
1.00	SILVER	380	CALCIUM						
3.00	ARSENIC	100	MAGNESIUM						
NA	BORON	1300	IRON						
9.2	BARIUM	1000	SODIUM						
0.50U	BERYLLIUM	2000	POTASSIUM						
2.0	CADMIUM	5	PERCENT MOISTURE						
1.00	COBALT								
4.5	CHROMIUM								
140	COPPER								
1.00	MOLYBDENUM								
2.00	NICKEL								
31	LEAD								
3.00	ANTIMONY								
4.00	SELENIUM								
4.50	TIN								
1.4	STRONTIUM								
5.00	TELLURIUM								
34	TITANIUM								
100	THALLIUM								
4.4	VANADIUM								
1.00	YTTRIUM								
73	ZINC								
NA	ZIRCONIUM								
0.07	MERCURY								
2200	ALUMINUM								
30	MANGANESE								

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS EPA-REGION IV ES. GEMENT SYSTEM 1 8/95  
THENS, GA.

SPECIFIED ANALYSIS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 173 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T31-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1010 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 173 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T31-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/23/95 1010 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

50U ALDRIN	500U PCB-1232 (AROCLO 1232)
50U HEPTACHLOR	500U PCB-1248 (AROCLO 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROCLO 1260)
50U ALPHA-BHC	500U PCB-1016 (AROCLO 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
50U DELTA-BHC	-- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	-- BETA-CHLORDENE /2
50U DIELDRIN	-- GAMMA-CHLORDENE /2
56 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
120 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
50U ENDRIN	-- CIS-NONACHLOR /2
50U ENDOSULFAN II (BETA)	-- OXYCHLORDANE (OCTACHLORPOXIDE) /2
50U ENDOSULFAN SULFATE	200U METHOXYCHLOR
200U CHLORDANE (TECH. MIXTURE) /1	50U ENDRIN KETONE
500U PCB-1242 (AROCLO 1242)	5.9 PERCENT MOISTURE
500U PCB-1254 (AROCLO 1254)	
500U PCB-1221 (AROCLO 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 173 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T31-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/23/95 1010 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

41U	CHLOROMETHANE	41U	CIS-1,3-DICHLOROPROPENE
41U	VINYL CHLORIDE	100U	METHYL ISOBUTYL KETONE
41U	BROMOMETHANE	5.8J	TOLUENE
41U	CHLOROETHANE	41U	TRANS-1,3-DICHLOROPROPENE
41U	TRICHLOROFLUOROMETHANE	41U	1,1,2-TRICHLOROETHANE
41U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	8.6J	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
41U	ACETONE	41U	1,3-DICHLOROPROPANE
100U	CARBON DISULFIDE	100U	METHYL BUTYL KETONE
41U	METHYLENE CHLORIDE	41U	DIBROMOCHLOROMETHANE
41U	TRANS-1,2-DICHLOROETHENE	41U	CHLOROBENZENE
41U	1,1-DICHLOROETHANE	41U	1,1,1,2-TETRACHLOROETHANE
41U	CIS-1,2-DICHLOROETHENE	41U	ETHYL BENZENE
41U	2,2-DICHLOROPROPANE	41U	(M- AND/OR P-) XYLENE
41U	METHYL ETHYL KETONE	41U	O-XYLENE
41U	BROMOCHLOROMETHANE	41U	STYRENE
41U	CHLOROFORM	41U	BROMOFORM
41U	1,1,1-TRICHLOROETHANE	41U	BROMOBENZENE
41U	1,1-DICHLOROPROPENE	41U	1,1,2,2-TETRACHLOROETHANE
41U	CARBON TETRACHLORIDE	41U	1,2,3-TRICHLOROPROPANE
41U	1,2-DICHLOROETHANE	41U	O-CHLOROTOLUENE
41U	BENZENE	41U	P-CHLOROTOLUENE
41U	TRICHLOROETHENE(TRICHLOROETHYLENE)	41U	1,3-DICHLOROBENZENE
41U	1,2-DICHLOROPROPANE	41U	1,4-DICHLOROBENZENE
41U	DIBROMOMETHANE	41U	1,2-DICHLOROBENZENE
41U	BROMODICHLOROMETHANE	5.9	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA RE. JT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 175 ANALYTICAL RESULTS  
\*\* SOURCE: NAS PENSACOLA ANALYTICAL RESULTS  
\*\* STATION ID: SF-T33-001 ANALYTICAL RESULTS  
\*\*\*  
MG/KG ANALYTICAL RESULTS  
1.00 SILVER 430 CALCIUM  
3.00 ARSENIC 92 MAGNESIUM  
NA BORON 400 IRON  
6.6 BARIUM 1000 SODIUM  
0.500 BERYLLIUM 2000 POTASSIUM  
0.500 CADMIUM 1 PERCENT MOISTURE  
37 COBALT  
1.00 CHROMIUM  
3.3 COPPER  
1.00 MOLYBDENUM  
9.5 NICKEL  
78 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
3.50 TIN  
2.7 STRONTIUM  
5.00 TELLURIUM  
11 TITANIUM  
100 THALLIUM  
1.00 VANADIUM  
1.00 YTTRIUM  
44 ZINC  
NA ZIRCONIUM  
0.050 MERCURY  
320 ALUMINUM  
5.1 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS  
EPA REGION IV ES

AGEMENT SYSTEM  
ATHENS, GA.

7/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 175 \*\*\*  
\*\*\* SOURCE: NAS PENSACOLA \*\*\*  
\*\*\* STATION ID: SF-T33-001 \*\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1000 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

2700U (3-AND/OR 4-) METHYLPHENOL  
2700U 1,2,4-TRICHLOROBENZENE  
2700U 2,2'-CHLOROISOPROPYLETHYER  
2700U 2,3,4,6-TETRACHLOROPHENOL  
2700U 2,4,5-TRICHLOROPHENOL  
2700U 2,4,6-TRICHLOROPHENOL  
2700U 2,4-DICHLOROPHENOL  
2700U 2,4-DIMETHYLPHENOL  
5400U 2,4-DINITROPHENOL  
2700U 2,4-DINITROTOLUENE  
2700U 2,6-DINITROTOLUENE  
2700U 2-CHLORONAPHTHALENE  
2700U 2-CHLOROPHENOL  
5400U 2-METHYL-4,6-DINITROPHENOL  
2700U 2-METHYLNAPHTHALENE  
2700U 2-METHYLPHENOL  
2700U 2-NITROANILINE  
2700U 2-NITROPHENOL  
2700U 3,3'-DICHLOROBENZIDINE  
2700U 3-NITROANILINE  
2700U 4-BROMOPHENYL PHENYL ETHER  
2700U 4-CHLORO-3-METHYLPHENOL  
2700U 4-CHLOROANILINE  
2700U 4-CHLOROPHENYL PHENYL ETHER  
2700U 4-NITROANILINE  
5400U 4-NITROPHENOL  
2700U ACENAPHTHENE  
2700U ACENAPHTHYLENE  
2700U ANTHRACENE  
2700U BENZO (A) ANTHRACENE  
2700U BENZO (B AND/OR K) FLUORANTHENE

BENZO (GHI) PERYLENE  
2700U BENZO-A-PYRENE  
2700U BENZYL BUTYL PHTHALATE  
2700U BIS (2-CHLOROETHOXY) METHANE  
2700U BIS (2-CHLOROETHYL) ETHER  
2700U BIS (2-ETHYLHEXYL) PHTHALATE  
2700U CARBAZOLE  
2700U CHRYSENE  
2700U DI-N-BUTYLPHTHALATE  
2700U DI-N-OCTYLPHTHALATE  
2700U DIBENZO (A,H) ANTHRACENE  
2700U DIBENZOFURAN  
2700U DIETHYL PHTHALATE  
2700U DIMETHYL PHTHALATE  
2700U FLUORANTHENE  
2700U FLUORENE  
2700U HEXACHLOROBENZENE (HCB)  
2700U HEXACHLOROBUTADIENE  
2700U HEXACHLOROCYCLOPENTADIENE (HCCP)  
2700U HEXACHLOROETHANE  
2700U INDENO (1,2,3-CD) PYRENE  
2700U ISOPHORONE  
2700U N-NITROSODI-N-PROPYLAMINE  
2700U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
2700U NAPHTHALENE  
2700U NITROBENZENE  
5400U PENTACHLOROPHENOL  
2700U PHENANTHRENE  
2700U PHENOL  
2700U PYRENE  
1.7 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

# PURGEABLE ORGANICS DATA REPORT

```

** PROJECT NO. 96-0002 SAMPLE NO. 175 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SF-T33-001
**
** PROG ELEM: SSF COLLECTED BY: J VAIL
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/23/95 1000 STOP: 00/00/00

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ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG	UG/KG	UG/KG	UG/KG
42U	CHLOROMETHANE	42U	CIS-1, 3-DICHLOROPROPENE
42U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
42U	BROMOMETHANE	42U	TOLUENE
42U	CHLOROMETHANE	42U	TRANS-1, 3-DICHLOROPROPENE
42U	TRICHLOROFLUOROMETHANE	42U	1, 1, 2-TRICHLOROETHANE
42U	1, 1-DICHLOROETHENE (1, 1-DICHLOROETHYLENE.)	42U	TETRACHLOROETHENE (TETRACHLOROETHYLENE.)
420U	ACETONE	42U	1, 3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
42U	METHYLENE CHLORIDE	42U	DIBROMOCHLOROMETHANE
42U	TRANS-1, 2-DICHLOROETHENE	42U	CHLOROBENZENE
42U	1, 1-DICHLOROETHANE	42U	1, 1, 1, 2-TETRACHLOROETHANE
42U	CIS-1, 2-DICHLOROETHENE	42U	ETHYL BENZENE
42U	2, 2-DICHLOROPROPANE	42U	(M- AND/OR P-) XYLENE
420U	METHYL ETHYL KETONE	42U	O-XYLENE
42U	BROMOCHLOROMETHANE	42U	STYRENE
42U	CHLOROFORM	42U	BROMOFORM
42U	1, 1, 1-TRICHLOROETHANE	42U	BROMOBENZENE
42U	1, 1-DICHLOROPROPENE	42U	1, 1, 2, 2-TETRACHLOROETHANE
42U	CARBON TETRACHLORIDE	42U	1, 2, 3-TRICHLOROPROPANE
42U	1, 2-DICHLOROETHANE	42U	O-CHLOROTOLUENE
42U	BENZENE	42U	P-CHLOROTOLUENE
42U	TRICHLOROETHENE (TRICHLOROETHYLENE.)	42U	1, 3-DICHLOROBENZENE
42U	1, 2-DICHLOROPROPANE	42U	1, 4-DICHLOROBENZENE
42U	DIBROMOMETHANE	42U	1, 2-DICHLOROBENZENE
42U	BROMODICHLOROMETHANE	1.7	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 176 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T34-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1320 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
1.00 SILVER	730 CALCIUM
3.00 ARSENIC	190 MAGNESIUM
NA BORON	3400 IRON
12 BARIUM	1000 SODIUM
0.50 BERYLLIUM	2000 POTASSIUM
0.56 CADMIUM	3 PERCENT MOISTURE
1.00 COBALT	
6.6 CHROMIUM	
6.5 COPPER	
1.00 MOLYBDENUM	
2.2 NICKEL	
53 LEAD	
3.00 ANTIMONY	
4.00 SELENIUM	
3.50 TIN	
2.7 STRONTIUM	
5.00 TELLURIUM	
64 TITANIUM	
100 THALLIUM	
7.5 VANADIUM	
2.8 YTTRIUM	
27 ZINC	
NA ZIRCONIUM	
0.05U MERCURY	
5400 ALUMINUM	
80 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



SAMPLE AND ANALYSIS  
EPA-REGION IV ES

AGEMENT SYSTEM  
ATHENS, GA.

1 0/95

PESTICIDES/PC... DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 176 SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SF-T34-001

PROG ELEM: SSF COLLECTED BY: J VAIL

CITY: PENSACOLA ST: FL

COLLECTION START: 10/23/95 1320 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

500U ALDRIN

500U HEPTACHLOR

500U HEPTACHLOR EPOXIDE

500U ALPHA-BHC

500U BETA-BHC

500U GAMMA-BHC (LINDANE)

500U DELTA-BHC

500U ENDOSULFAN I (ALPHA)

500U DIELDRIN

500U 4,4'-DDT (P,P'-DDT)

500U 4,4'-DDE (P,P'-DDE)

500U 4,4'-DDD (P,P'-DDD)

500U ENDRIN

500U ENDOSULFAN II (BETA)

500U ENDOSULFAN SULFATE

2000U CHLORDANE (TECH. MIXTURE) /1

5000U PCB-1242 (AROCLOR 1242)

5000U PCB-1254 (AROCLOR 1254)

5000U PCB-1221 (AROCLOR 1221)

500U PCB-1232 (AROCLOR 1232)

500U PCB-1248 (AROCLOR 1248)

500U PCB-1260 (AROCLOR 1260)

500U PCB-1016 (AROCLOR 1016)

30000U TOXAPHENE

-- CHLORDENE /2

-- ALPHA-CHLORDENE /2

-- BETA-CHLORDENE /2

-- GAMMA-CHLORDENE /2

-- GAMMA-CHLORDANE /2

-- TRANS-NONACHLOR /2

-- ALPHA-CHLORDANE /2

-- CIS-NONACHLOR /2

-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2

200U METHOXYCHLOR

50U ENDRIN KETONE

3.2 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

\*NA-NOT ANALYZED

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

C-CONFIRMED BY GC/MS



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/27/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 176 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T34-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1320 STOP: 00/00/00

ANALYTICAL RESULTS  
UG/KG

3700U	(3-AND/OR 4-)METHYLPHENOL	3700U	BENZO(GHI)PERYLENE
3700U	1,2,4-TRICHLOROBENZENE	3700U	BENZO-A-PYRENE
3700U	2,2'-CHLOROISOPROPYLETHYER	3700U	BENZYL BUTYL PHTHALATE
3700U	2,3,4,6-TETRACHLOROPHENOL	3700U	BIS(2-CHLOROETHOXY) METHANE
3700U	2,4,5-TRICHLOROPHENOL	3700U	BIS(2-CHLOROETHYL) ETHER
3700U	2,4,6-TRICHLOROPHENOL	3700U	BIS(2-ETHYLHEXYL) PHTHALATE
3700U	2,4-DICHLOROPHENOL	3700U	CARBAZOLE
3700U	2,4-DIMETHYLPHENOL	3700U	CHRYSENE
7400U	2,4-DINITROPHENOL	3700U	DI-N-BUTYLPHTHALATE
3700U	2,4-DINITROTOLUENE	3700U	DI-N-OCTYLPHTHALATE
3700U	2,6-DINITROTOLUENE	3700U	DIBENZO(A,H)ANTHRACENE
3700U	2-CHLORONAPHTHALENE	3700U	DIBENZOFURAN
3700U	2-CHLOROPHENOL	3700U	DIETHYL PHTHALATE
7400U	2-METHYL-4,6-DINITROPHENOL	3700U	DIMETHYL PHTHALATE
3700U	2-METHYLNAPHTHALENE	3700U	FLUORANTHENE
3700U	2-METHYLPHENOL	3700U	FLUORENE
3700U	2-NITROANILINE	3700U	HEXACHLOROBENZENE (HCB)
3700U	2-NITROPHENOL	3700U	HEXACHLOROBUTADIENE
3700U	3,3'-DICHLOROBENZIDINE	3700U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3700U	3-NITROANILINE	3700U	HEXACHLOROETHANE
3700U	4-BROMOPHENYL PHENYL ETHER	3700U	INDENO (1,2,3-CD) PYRENE
3700U	4-CHLORO-3-METHYLPHENOL	3700U	ISOPHORONE
3700U	4-CHLOROANILINE	3700U	N-NITROSODI-N-PROPYLAMINE
3700U	4-CHLOROPHENYL PHENYL ETHER	3700U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3700U	4-NITROANILINE	3700U	NAPHTHALENE
7400U	4-NITROPHENOL	3700U	NITROBENZENE
3700U	ACENAPHTHENE	7400U	PENTACHLOROPHENOL
3700U	ACENAPHTHYLENE	3700U	PHENANTHRENE
3700U	ANTHRACENE	3700U	PHENOL
3700U	BENZO(A)ANTHRACENE	3700U	PYRENE
3700U	BENZO(B AND/OR K)FLUORANTHENE	3.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.







PESTICIDES/PCB'S DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 183  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T40-001  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
SAMPLE AND ANALYSIS EPA-REGION IV ES1  
GEMENT SYSTEM  
THENS, GA.  
1. 0/95  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0900 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*~

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

50U	ALDRIN	500U	PCB-1232 (AROC'LOR 1232)
50U	HEPTACHLOR	500U	PCB-1248 (AROC'LOR 1248)
50U	HEPTACHLOR EPOXIDE	500U	PCB-1260 (AROC'LOR 1260)
50U	ALPHA-BHC	500U	PCB-1016 (AROC'LOR 1016)
50U	BETA-BHC	3000U	TOXAPHENE
50U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
50U	DELTA-BHC	--	ALPHA-CHLORDENE /2
50U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
50U	DIELDRIN	--	GAMMA-CHLORDANE /2
50U	4,4'-DDT (P,P'-DDT)	--	GAMMA-CHLORDANE /2
50U	4,4'-DDE (P,P'-DDE)	--	TRANS-NONACHLOR /2
50U	4,4'-DDD (P,P'-DDD)	--	ALPHA-CHLORDANE /2
50U	ENDRIN	--	CIS-NONACHLOR /2
50U	ENDOSULFAN II (BETA)	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
50U	ENDOSULFAN SULFATE	200U	METHOXYCHLOR
200U	CHLORDANE (TECH. MIXTURE) /1	50U	ENDRIN KETONE
500U	PCB-1242 (AROC'LOR 1242)	5.9	PERCENT MOISTURE
500U	PCB-1254 (AROC'LOR 1254)		
500U	PCB-1221 (AROC'LOR 1221)		

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN C-CONFIRMED BY GC/MS  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 183 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SF-T40-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/24/95 0900 STOP: 00/00/00

\*\*\* UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS  
\*\*\* UG/KG

4100U	(3-AND/OR 4-)METHYLPHENOL	4100U	BENZO(GHI)PERYLENE
4100U	1,2,4-TRICHLOROBENZENE	4100U	BENZO-A-PYRENE
4100U	2,2'-CHLOROISOPROPYLEETHER	4100U	BENZYL BUTYL PHTHALATE
4100U	2,3,4,6-TETRACHLOROPHENOL	4100U	BIS(2-CHLOROETHOXY) METHANE
4100U	2,4,5-TRICHLOROPHENOL	4100U	BIS(2-CHLOROETHYL) ETHER
4100U	2,4,6-TRICHLOROPHENOL	4100U	BIS(2-ETHYLHEXYL) PHTHALATE
4100U	2,4-DICHLOROPHENOL	4100U	CARBAZOLE
4100U	2,4-DIMETHYLPHENOL	4100U	CHRYSENE
8200U	2,4-DINITROPHENOL	4100U	DI-N-BUTYLPHTHALATE
4100U	2,4-DINITROTOLUENE	4100U	DI-N-OCTYLPHTHALATE
4100U	2,6-DINITROTOLUENE	4100U	DIBENZO(A,H)ANTHRACENE
4100U	2-CHLORONAPHTHALENE	4100U	DIBENZOFURAN
4100U	2-CHLOROPHENOL	4100U	DIETHYL PHTHALATE
8200U	2-METHYL-4,6-DINITROPHENOL	4100U	DIMETHYL PHTHALATE
4100U	2-METHYLNAPHTHALENE	4100U	FLUORANTHENE
4100U	2-METHYLPHENOL	4100U	FLUORENE
4100U	2-NITROANILINE	4100U	HEXACHLOROBENZENE (HCB)
4100U	2-NITROPHENOL	4100U	HEXACHLOROBUTADIENE
4100U	3,3'-DICHLOROBENZIDINE	4100U	HEXACHLOROCYCLOFENTADIENE (HCCP)
4100U	3-NITROANILINE	4100U	HEXACHLOROETHANE
4100U	4-BROMOPHENYL PHENYL ETHER	4100U	INDENO (1,2,3-CD) PYRENE
4100U	4-CHLORO-3-METHYLPHENOL	4100U	ISOPHORONE
4100U	4-CHLOROANILINE	4100U	N-NITROSODI-N-PROPYLAMINE
4100U	4-CHLOROPHENYL PHENYL ETHER	4100U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4100U	4-NITROANILINE	4100U	NAPHTHALENE
8200U	4-NITROPHENOL	4100U	NITROBENZENE
4100U	ACENAPHTHENE	8200U	PENTACHLOROPHENOL
4100U	ACENAPHTHYLENE	4100U	PHENANTHRENE
4100U	ANTHRACENE	4100U	PHENOL
4100U	BENZO(A)ANTHRACENE	4100U	PYRENE
4100U	BENZO(B AND/OR K)FLUORANTHENE	5.9	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MA  
EPA REGION IV ESD, IENS, GA.

12/ 95

UPGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 183 SAMPLE TYPE: SOIL, PROG ELEM: SSF COLLECTED BY: D HUNTER  
SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
STATION ID: SF-T40-001 COLLECTION START: 10/24/95 0900 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

45U	CHLOROMETHANE	45U	CIS-1,3-DICHLOROPROPENE
45U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
45U	BROMOMETHANE	45U	TOLUENE
45U	CHLOROETHANE	45U	TRANS-1,3-DICHLOROPROPENE
45U	TRICHLOROFLUOROMETHANE	45U	1,1,2-TRICHLOROETHANE
45U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	45U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
45U	ACETONE	45U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
45U	METHYLENE CHLORIDE	45U	DIBROMOCHLOROMETHANE
45U	TRANS-1,2-DICHLOROETHENE	45U	CHLOROBENZENE
45U	1,1-DICHLOROETHANE	45U	1,1,1,2-TETRACHLOROETHANE
45U	CIS-1,2-DICHLOROETHENE	45U	ETHYL BENZENE
45U	2,2-DICHLOROPROPANE	45U	(M- AND/OR P-) XYLENE
45U	METHYL ETHYL KETONE	45U	O-XYLENE
45U	BROMOCHLOROMETHANE	45U	STYRENE
45U	CHLOROFORM	45U	BROMOFORM
45U	1,1,1-TRICHLOROETHANE	45U	BROMOBENZENE
45U	1,1-DICHLOROPROPENE	45U	1,1,2,2-TETRACHLOROETHANE
45U	CARBON TETRACHLORIDE	45U	1,2,3-TRICHLOROPROPANE
45U	1,2-DICHLOROETHANE	45U	O-CHLOROTOLUENE
45U	BENZENE	45U	P-CHLOROTOLUENE
45U	TRICHLOROETHENE(TRICHLOROETHYLENE)	45U	1,3-DICHLOROBENZENE
45U	1,2-DICHLOROPROPANE	45U	1,4-DICHLOROBENZENE
45U	DIBROMOMETHANE	45U	1,2-DICHLOROBENZENE
45U	BROMODICHLOROMETHANE	6.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS  
EPA REGION IV ES

AGEMENT SYSTEM  
ATHENS, GA.

8/95

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 96-0002

SOURCE: NAS PENSACOLA

STATION ID: SF-T41-001

SAMPLE NO. 184

SAMPLE TYPE: SOIL

PROG ELEM: SSF

CITY: PENSACOLA

COLLECTION START: 10/24/95

COLLECTED BY: D HUNTER

ST: FL

STOP: 00/00/00

RESULTS

UNITS

PARAMETER

0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*K-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/20/95

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 184 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T41-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0910 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

ANALYTICAL RESULTS

50U ALDRIN	500U PCB-1232 (AROCOR 1232)
50U HEPTACHLOR	500U PCB-1248 (AROCOR 1248)
50U HEPTACHLOR EPOXIDE	500U PCB-1260 (AROCOR 1260)
50U ALPHA-BHC	500U PCB-1016 (AROCOR 1016)
50U BETA-BHC	3000U TOXAPHENE
50U GAMMA-BHC (LINDANE)	-- CHLORDENE /2
50U DELTA-BHC	-- ALPHA-CHLORDENE /2
50U ENDOSULFAN I (ALPHA)	-- BETA CHLORDENE /2
50U DIELDRIN	-- GAMMA-CHLORDENE /2
50U 4,4'-DDT (P,P'-DDT)	-- GAMMA-CHLORDANE /2
50U 4,4'-DDE (P,P'-DDE)	-- TRANS-NONACHLOR /2
50U 4,4'-DDD (P,P'-DDD)	-- ALPHA-CHLORDANE /2
50U ENDRIN	-- CIS-NONACHLOR /2
50U ENDOSULFAN II (BETA)	-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
50U ENDOSULFAN SULFATE	200U METHOXYCHLOR
200U CHLORDANE (TECH. MIXTURE) /1	50U ENDRIN KETONE
500U PCB-1242 (AROCOR 1242)	4.0 PERCENT MOISTURE
500U PCB-1254 (AROCOR 1254)	
500U PCB-1221 (AROCOR 1221)	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.



TRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 184 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SF-T41-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 0910 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

UG/KG

4100U	(3-AND/OR 4-)METHYLPHENOL	4100U	BENZO (GHI)PERYLENE
4100U	1,2,4-TRICHLOROBENZENE	4100U	BENZO-A-PYRENE
4100U	2,2'-CHLOROISOPROPYLETHER	4100U	BENZYL BUTYL PHTHALATE
4100U	2,3,4,6-TETRACHLOROPHENOL	4100U	BIS(2-CHLOROETHOXY) METHANE
4100U	2,4,5-TRICHLOROPHENOL	4100U	BIS(2-CHLOROETHYL) ETHER
4100U	2,4,6-TRICHLOROPHENOL	4100U	BIS(2-ETHYLHEXYL) PHTHALATE
4100U	2,4-DICHLOROPHENOL	4100U	CARBAZOLE
4100U	2,4-DIMETHYLPHENOL	4100U	CHRYSENE
8300U	2,4-DINITROPHENOL	4100U	DI-N-BUTYLPHTHALATE
4100U	2,4-DINITROTOLUENE	4100U	DI-N-OCTYLPHTHALATE
4100U	2,6-DINITROTOLUENE	4100U	DIBENZO (A,H)ANTHRACENE
4100U	2-CHLORONAPHTHALENE	4100U	DIBENZOFURAN
4100U	2-CHLOROPHENOL	4100U	DIETHYL PHTHALATE
8300U	2-METHYL-4,6-DINITROPHENOL	4100U	DIMETHYL PHTHALATE
4100U	2-METHYLNAPHTHALENE	4100U	FLUORANTHENE
4100U	2-METHYLPHENOL	4100U	FLUORENE
4100U	2-NITROANILINE	4100U	HEXACHLOROBENZENE (HCB)
4100U	2-NITROPHENOL	4100U	HEXACHLOROBUTADIENE
4100U	3,3'-DICHLOROBENZIDINE	4100U	HEXACHLOROCYCLOPENTADIENE (HCCP)
4100U	3-NITROANILINE	4100U	HEXACHLOROETHANE
4100U	4-BROMOPHENYL PHENYL ETHER	4100U	INDENO (1,2,3-CD) PYRENE
4100U	4-CHLORO-3-METHYLPHENOL	4100U	ISOPHORONE
4100U	4-CHLOROANILINE	4100U	N-NITROSODI-N-PROPYLAMINE
4100U	4-CHLOROPHENYL PHENYL ETHER	4100U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4100U	4-NITROANILINE	4100U	NAPHTHALENE
8300U	4-NITROPHENOL	4100U	NITROBENZENE
4100U	ACENAPHTHENE	8300U	PENTACHLOROPHENOL
4100U	ACENAPHTHYLENE	4100U	PHENANTHRENE
4100U	ANTHRACENE	4100U	PHENOL
4100U	BENZO (A) ANTHRACENE	4100U	PYRENE
4100U	BENZO (B AND/OR K) FLUORANTHENE	4.0	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 184 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SF-T41-001  
\*\*  
\*\*\* PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\* CITY: PENSACOLA ST: FL  
\*\* COLLECTION START: 10/24/95 0910 STOP: 00/00/00  
\*\*

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

47U	CHLOROMETHANE	47U	CIS-1,3-DICHLOROPROPENE
47U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
47U	BROMOMETHANE	47U	TOLUENE
47U	CHLOROETHANE	47U	TRANS-1,3-DICHLOROPROPENE
47U	TRICHLOROFLUOROMETHANE	47U	1,1,2-TRICHLOROETHANE
47U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	47U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
470U	ACETONE	47U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
47U	METHYLENE CHLORIDE	47U	DIBROMOCHLOROMETHANE
47U	TRANS-1,2-DICHLOROETHENE	47U	CHLOROBENZENE
47U	1,1-DICHLOROETHANE	47U	1,1,1,2-TETRACHLOROETHANE
47U	CIS-1,2-DICHLOROETHENE	47U	ETHYL BENZENE
47U	2,2-DICHLOROPROPANE	47U	(M- AND/OR P-) XYLENE
470U	METHYL ETHYL KETONE	47U	O-XYLENE
47U	BROMOCHLOROMETHANE	47U	STYRENE
47U	CHLOROFORM	47U	BROMOFORM
47U	1,1,1-TRICHLOROETHANE	47U	BROMOBENZENE
47U	1,1-DICHLOROPROPENE	47U	1,1,2,2-TETRACHLOROETHANE
47U	CARBON TETRACHLORIDE	47U	1,2,3-TRICHLOROPROPANE
47U	1,2-DICHLOROETHANE	47U	O-CHLOROTOLUENE
47U	BENZENE	47U	P-CHLOROTOLUENE
47U	TRICHLOROETHENE (TRICHLOROETHYLENE)	47U	1,3-DICHLOROBENZENE
47U	1,2-DICHLOROPROPANE	47U	1,4-DICHLOROBENZENE
47U	DIBROMOMETHANE	47U	1,2-DICHLOROBENZENE
47U	BROMODICHLOROMETHANE	4.0	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS M' EMENT SYSTEM  
EPA REGION IV ESD, HENS, GA.

12 95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 94 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T04-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1610 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

500 CALCIUM  
100 MAGNESIUM  
47 IRON  
1000 SODIUM  
2000 POTASSIUM  
19 PERCENT MOISTURE

1.00 SILVER  
3.00 ARSENIC  
NA BORON  
4.6 BARIUM  
0.500 BERYLLIUM  
0.500 CADMIUM  
1.00 COBALT  
1.00 CHROMIUM  
1.00 COPPER  
1.00 MOLYBDENUM  
2.00 NICKEL  
13 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
3.50 TIN  
1.00 STRONTIUM  
5.00 TELLURIUM  
5.8 TITANIUM  
100 THALLIUM  
1.00 VANADIUM  
1.00 YTTRIUM  
1.3 ZINC  
NA ZIRCONIUM  
0.82 MERCURY  
66 ALUMINUM  
1.00 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



## 12/18/95

RESULTS	UNITS	PARAMETER
0.25U	MG/KG	CYANIDE

\*\*\*FOOTNOTES\*\*\*

\*A- AVERAGE VALUE                    \*NA- NOT ANALYZED                    \*J- ESTIMATED VALUE                    \*N- PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K- ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN                    \*L- ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U- MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS EPA-REGION IV ES AGEMENT SYSTEM ATHENS, GA. 08/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96 0002 SAMPLE NO. 94 ANALYTICAL RESULTS  
SOURCE: NAS PENSACOLA  
STATION ID: SB T04-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/17/95 1610 STOP: 00/00/00

UG/KG		ANALYTICAL RESULTS		UG/KG		ANALYTICAL RESULTS	
35000	(3- AND/OR 4-) METHYLPHENOL			35000	BENZO (GHI) PERYLENE		
35000	1,2,4-TRICHLOROBENZENE			35000	BENZO-A PYRENE		
35000	2,2'-CHLOROISOPROPYLETHER			35000	BENZYL BUTYL PHTHALATE		
35000	2,3,4,6-TETRACHLOROPHENOL			35000	RIS (2-CHLOROPHOXY) METHANE		
35000	2,4,5-TRICHLOROPHENOL			35000	BIS (2-CHLOROTHYL) ETHER		
35000	2,4,6-TRICHLOROPHENOL			35000	BIS (2-ETHYLHEXYL) PHTHALATE		
35000	2,4-DICHLOROPHENOL			35000	CARBAZOLE		
35000	2,4-DIMETHYLPHENOL			35000	CHRYSENE		
70000	2,4-DINITROPHENOL			35000	DI-N-BUTYLPHTHALATE		
35000	2,4-DINITROTOLUENE			35000	DI-N-OCTYLPHTHALATE		
35000	2,6-DINITROTOLUENE			35000	DIBENZO (A,H) ANTHRACENE		
35000	2-CHLORONAPHTHALENE			35000	DIBENZOFURAN		
35000	2-CHLOROPHENOL			35000	DIETHYL PHTHALATE		
70000	2-METHYL 4,6-DINITROPHENOL			35000	DIMETHYL PHTHALATE		
35000	2-METHYLNAPHTHALENE			35000	FLUORANTHENE		
35000	2-METHYLPHENOL			35000	FLUORENE		
35000	2-NITROANILINE			35000	HEXACHLOROBENZENE (HCB)		
35000	2-NITROPHENOL			35000	HEXACHLOROBUTADIENE		
35000	3,3'-DICHLOROBENZIDINE			35000	HEXACHLOROCYCLOPENTADIENE (HCCP)		
35000	3-NITROANILINE			35000	HEXACHLOROETHANE		
35000	4-BROMOPHENYL PHENYL ETHER			35000	INDENO (1,2,3-CD) PYRENE		
35000	4-CHLORO-3-METHYLPHENOL			35000	ISOPHORONE		
35000	4-CHLOROANILINE			35000	N-NITROSODI-N PROPYLAMINE		
35000	4-CHLOROPHENYL PHENYL ETHER			35000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE		
35000	4-NITROANILINE			35000	NAPHTHALENE		
70000	4-NITROPHENOL			35000	NITROBENZENE		
35000	ACENAPHTHENE			70000	PENTACHLOROPHENOL		
35000	ACENAPHTHYLENE			35000	PHENANTHRENE		
35000	ANTHRACENE			35000	PHENOL		
35000	BENZO (A)ANTHRACENE			35000	PYRENE		
35000	BENZO (B AND/OR K)FLUORANTHENE			22.2	PERCENT MOISTURE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 100 SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SB-T10-001

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

COLLECTION START: 10/18/95 1420 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
MG/KG		MG/KG	
1.00	SILVER	270	CALCIUM
3.00	ARSENIC	66	MAGNESIUM
NA	BORON	1500	IRON
10	BARIUM	1000	SODIUM
0.500	BERYLLIUM	2000	POTASSIUM
0.94	CADMIUM	20	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*NAI-INTERFERENCES

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96 0002 SAMPLE NO 100 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SR T10-001  
\*\*\*  
\*\*\* ANALYTICAL RESULTS  
\*\*\*

UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

36000	(3-AND/OR 4) METHYLPHENOL	36000	BENZO (GH) PERYLENE
36000	1,2,4-TRICHLOROBENZENE	36000	BENZO-A-PYRENE
36000	2,2'-CHLOROISOPROPYLETHYER	36000	BENZYL BUTYL PHTHALATE
36000	2,3,4,6-TETRACHLOROPHENOL	36000	BIS(2-CHLOROETHOXY) METHANE
36000	2,4,5-TRICHLOROPHENOL	36000	BIS(2-CHLOROETHYL) ETHER
36000	2,4,6-TRICHLOROPHENOL	36000	BIS(2-ETHYLHEXYL) PHTHALATE
36000	2,4-DICHLOROPHENOL	36000	CARBAZOLE
36000	2,4-DIMETHYLPHENOL	36000	CHRYSENE
7200.0	2,4-DINITROPHENOL	36000	DI-N-BUTYLPHTHALATE
36000	2,4-DINITROTOLUENE	36000	DI-N-OCTYLPHTHALATE
36000	2,6-DINITROTOLUENE	36000	DIBENZO(A,H)ANTHRACENE
36000	2-CHLORONAPHTHALENE	36000	DIBENZOFURAN
36000	2-CHLOROPHENOL	36000	DIETHYL PHTHALATE
7200.0	2-METHYL 4,6-DINITROPHENOL	36000	DIMETHYL PHTHALATE
36000	2-METHYLNAPHTHALENE	36000	FLUORANTHENE
36000	2-METHYLPHENOL	36000	FLUORENE
36000	2-NITROANILINE	36000	HEXACHLOROBENZENE (HCB)
36000	2-NITROPHENOL	36000	HEXACHLOROBUTADIENE
36000	3,3'-DICHLOROBENZIDINE	36000	HEXACHLOROCYCLOPENTADIENE (HCCP)
36000	3-NITROANILINE	36000	HEXACHLOROETHANE
36000	4-BROMOPHENYL PHENYL ETHER	36000	INDENO (1,2,3-CD) PYRENE
36000	4-CHLORO 3-METHYLPHENOL	36000	ISOPHORONE
36000	4-CHLOROANILINE	36000	N-NITROSODI-N-PROPYLAMINE
36000	4-CHLOROPHENYL PHENYL ETHER	36000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
36000	4-NITROANILINE	36000	NAPHTHALENE
7200.0	4-NITROPHENOL	36000	NITROBENZENE
36000	ACENAPHTHENE	7200.0	PENTACHLOROPHENOL
36000	ACENAPHTHYLENE	36000	PHENANTHRENE
36000	ANTHRACENE	36000	PHENOL
36000	BENZO(A)ANTHRACENE	36000	PYRENE
36000	BENZO(B AND/OR K) FLUORANTHENE		PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

## PURGEABLE ORGANICS DATA REPORT

```

** PROJECT NO. 96-0002 SAMPLE NO. 100 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SB-T10-001
**
** PROG ELEM: SSF COLLECTED BY: F SLOAN
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/18/95 1420 STOP: 00/00/00

```

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

58U	CHLOROMETHANE	58U	CIS-1,3-DICHLOROPROPENE
58U	VINYL CHLORIDE	150U	METHYL ISOBUTYL KETONE
58U	BROMOMETHANE	58U	TOLUENE
58U	CHLOROETHANE	58U	TRANS-1,3-DICHLOROPROPENE
58U	TRICHLOROFLUOROMETHANE	58U	1,1,2-TRICHLOROETHANE
58U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	58U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
580U	ACETONE	58U	1,3-DICHLOROPROPANE
150U	CARBON DISULFIDE	150U	METHYL BUTYL KETONE
58U	METHYLENE CHLORIDE	58U	DIBROMOCHLOROMETHANE
58U	TRANS-1,2-DICHLOROETHENE	58U	CHLOROBENZENE
58U	1,1-DICHLOROETHANE	58U	1,1,1,2-TETRACHLOROETHANE
58U	CIS-1,2-DICHLOROETHENE	58U	ETHYL BENZENE
58U	2,2-DICHLOROPROPANE	58U	(M- AND/OR P-) XYLENE
580U	METHYL ETHYL KETONE	58U	O-XYLENE
58U	BROMOCHLOROMETHANE	58U	STYRENE
58U	CHLOROFORM	58U	BROMOFORM
58U	1,1,1-TRICHLOROETHANE	58U	BROMOBENZENE
58U	1,1-DICHLOROPROPENE	58U	1,1,2,2-TETRACHLOROETHANE
58U	CARBON TETRACHLORIDE	58U	1,2,3-TRICHLOROPROPANE
58U	1,2-DICHLOROETHANE	58U	O-CHLOROTOLUENE
58U	BENZENE	58U	P-CHLOROTOLUENE
58U	TRICHLOROETHENE (TRICHLOROETHYLENE)	58U	1,3-DICHLOROBENZENE
58U	1,2-DICHLOROPROPANE	58U	1,4-DICHLOROBENZENE
58U	DIBROMOMETHANE	58U	1,2-DICHLOROBENZENE
58U	BROMODICHLOROMETHANE		PERCENT MOISTURE
		21.8	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

## \*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

METALS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 104 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T14-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1705 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
MG/KG		MG/KG	
1.00	SILVER	500	CALCIUM
3.00	ARSENIC	100	MAGNESIUM
NA	BORON	14	IRON
1.00	BARIUM	1000	SODIUM
0.500	BERYLLIUM	2000	POTASSIUM
0.500	CADMIUM	20	PERCENT MOISTURE
1.00	COBALT		
1.00	CHROMIUM		
1.4	COPPER		
1.00	MOLYBDENUM		
2.00	NICKEL		
0.80	LEAD		
3.00	ANTIMONY		
4.00	SELENIUM		
3.50	TIN		
1.00	STRONTIUM		
5.00	TELLURIUM		
1.2	TITANIUM		
100	THALLIUM		
1.00	VANADIUM		
1.00	YTTRIUM		
1.2	ZINC		
NA	ZIRCONIUM		
0.040	MERCURY		
20	ALUMINUM		
1.2	MANGANESE		

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

## SPECIFIED ANALYSIS DATA REPORT

```
SPECIFIED ANALYSIS DATA REPORT  
***  
** PROJECT NO. 96-0002 SAMPLE NO. 104 SAMPLE TYPE: SOIL **  
** SOURCE: NAS PENSACOLA ***  
** STATION ID: SB-T14-001 ***
```

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 STOP: 00/00/00

RESULTS	UNITS	PARAMETER
0.25U	MG/KG	CYANIDE

## \*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 104 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T14-001  
\*\*\*  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/18/95 1705 STOP: 00/00/00  
\*\*\*

\*\*\* UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

54U	CHLOROMETHANE	54U	CIS-1,3-DICHLOROPROPENE
54U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
54U	BROMOMETHANE	54U	TOLUENE
54U	CHLOROETHANE	54U	TRANS-1,3-DICHLOROPROPENE
54U	TRICHLOROFLUOROMETHANE	54U	1,1,2-TRICHLOROETHANE
54U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	54U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
540U	ACETONE	54U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
54U	METHYLENE CHLORIDE	54U	DIBROMOCHLOROMETHANE
54U	TRANS-1,2-DICHLOROETHENE	54U	CHLOROBENZENE
54U	1,1-DICHLOROETHANE	54U	1,1,1,2-TETRACHLOROETHANE
54U	CIS-1,2-DICHLOROETHENE	54U	ETHYL BENZENE
54U	2,2-DICHLOROPROPANE	54U	(M- AND/OR P-) XYLENE
540U	METHYL ETHYL KETONE	54U	O-XYLENE
54U	BROMOCHLOROMETHANE	54U	STYRENE
54U	CHLOROFORM	54U	BROMOFORM
54U	1,1,1-TRICHLOROETHANE	54U	BROMOBENZENE
54U	1,1-DICHLOROPROPENE	54U	1,1,2,2-TETRACHLOROETHANE
54U	CARBON TETRACHLORIDE	54U	1,2,3-TRICHLOROPROPANE
54U	1,2-DICHLOROETHANE	54U	O-CHLOROTOLUENE
54U	BENZENE	54U	P-CHLOROTOLUENE
54U	TRICHLOROETHENE (TRICHLOROETHYLENE)	54U	1,3-DICHLOROBENZENE
54U	1,2-DICHLOROPROPANE	54U	1,4-DICHLOROBENZENE
54U	DIBROMOMETHANE	54U	1,2-DICHLOROBENZENE
54U	BROMODICHLOROMETHANE	54U	PERCENT MOISTURE
		22.1	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA R<sub>1</sub> X<sub>T</sub>  
\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 159 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T29-001  
\*\*\*  
\*\*\* ANALYTICAL RESULTS  
MG/KG  
1.00 SILVER  
1.8 ARSENIC  
NA BORON  
21 BARIUM  
0.50U BERYLLIUM  
0.50U CADMIUM  
1.1 COBALT  
3.6 CHROMIUM  
35 COPPER  
1.00 MOLYBDENUM  
3.0 NICKEL  
92 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
15U TIN  
7.2 STRONTIUM  
5.0U TELLURIUM  
28 TITANIUM  
10U THALLIUM  
1.9 VANADIUM  
1.0U YTTRIUM  
100 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
550 ALUMINUM  
35 MANGANESE

MG/KG  
2900 CALCIUM  
290 MAGNESIUM  
2100 IRON  
100U SODIUM  
300U POTASSIUM  
20 PERCENT MOISTURE

ANALYTICAL RESULTS

ANALYTICAL RESULTS

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1720 STOP: 00/00/00

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS EPA-REGION IV E. AGEMENT SYSTEM ATHENS, GA.

27/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 159  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T29-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 0/20/95 1720 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

UG/KG

3500U	(3-AND/OR 4-) METHYLPHENOL	3500U	BENZO (GHI) PERYLENE
3500U	1,2,4 - TRICHLOROBENZENE	3500U	BENZO-A - PYRENE
3500U	2,2' - CHLOROISOPROPYLETHER	3500U	BENZYL BUTYL PHTHALATE
3500U	2,3,4,6 - TETRACHLOROPHENOL	3500U	BIS (2-CHLOROETHOXY) METHANE
3500U	2,4,5 - TRICHLOROPHENOL	3500U	BIS (2-CHLOROETHYL) ETHER
3500U	2,4,6 - TRICHLOROPHENOL	3500U	BIS (2-ETHYLHEXYL) PHTHALATE
3500U	2,4-DICHLOROPHENOL	3500U	CARBAZOLE
3500U	2,4-DIMETHYLPHENOL	3500U	CHRYSENE
7000U	2,4-DINITROPHENOL	3500U	DI-N-BUTYLPHTHALATE
3500U	2,4-DINITROTOLUENE	3500U	DI-N-OCTYLPHTHALATE
3500U	2,6-DINITROTOLUENE	3500U	DIBENZO (A,H) ANTHRACENE
3500U	2-CHLORONAPHTHALENE	3500U	DIBENZOFURAN
3500U	2-CHLOROPHENOL	3500U	DIETHYL PHTHALATE
7000U	2-METHYL-4,6-DINITROPHENOL	3500U	DIMETHYL PHTHALATE
3500U	2-METHYLNAPHTHALENE	3500U	FLUORANTHENE
3500U	2-METHYLPHENOL	3500U	FLUORENE
3500U	2-NITROANILINE	3500U	HEXACHLOROBENZENE (HCB)
3500U	2-NITROPHENOL	3500U	HEXACHLOROBUTADIENE
3500U	3,3'-DICHLOROBENZIDINE	3500U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3500U	3-NITROANILINE	3500U	HEXACHLOROETHANE
3500U	4-BROMOPHENYL PHENYL ETHER	3500U	INDENO (1,2,3-CD) PYRENE
3500U	4-CHLORO-3-METHYLPHENOL	3500U	ISOPHORONE
3500U	4-CHLOROANILINE	3500U	N-NITROSODI-N-PROPYLAMINE
3500U	4-CHLOROPHENYL PHENYL ETHER	3500U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3500U	4-NITROANILINE	3500U	NAPHTHALENE
7000U	4-NITROPHENOL	3500U	NITROBENZENE
3500U	ACENAPHTHENE	7000U	PENTACHLOROPHENOL
3500U	ACENAPHTHYLENE	3500U	PHENANTHRENE
3500U	ANTHRACENE	3500U	PHENOL
3500U	BENZO (A) ANTHRACENE	3500U	PYRENE
3500U	BENZO (B AND/OR K) FLUORANTHENE	20.6	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

12/04/95

12/04/95

12/04/95

12/04/95

12/04/95

\*\*\*REMARKS\*\*\*

## \*\*\*FOOTNOTES\*\*\*



## METALS DATA REPORT

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METALS DATA REPORT
** ** ** ** **
** PROJECT NO: 96-0002      SAMPLE NO. 162  SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SB-T32-001
**
** ** ** **
** PROG ELEM: SSF      COLLECTED BY: J VAIL
** CITY: PENSACOLA      ST: FL
** COLLECTION START: 10/23/95 1005  STOP: 00/00/00
**

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ANALYTICAL RESULTS

ANALYTICAL RESULTS

ANALYTICAL RESULTS		MG/KG	ANAL
SILVER	1.00	200	CALCIUM
ARSENIC	3.00	100	MAGNESIUM
BORON	NA	29	IRON
BARIUM	1.00	1000	SODIUM
BERYLLIUM	0.500	2000	POTASSIUM
CADMIUM	0.500	9	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*K-ACTUAL VALUE ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 162 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T32-001  
\*\*  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1005 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*

RESULTS UNITS PARAMETER  
0.22U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 162  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T32-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1005 STOP: 00/00/00

ANALYTICAL RESULTS											
UG/KG											
3500U	(3-AND/OR 4-)METHYLPHENOL	3500U	BENZO (GHI) PERYLENE	3500U	DI-N-BUTYLPHTHALATE	3500U	CHRYSENE	3500U	DI-N-BUTYLPHTHALATE	3500U	DI-N-OCTYLPHTHALATE
3500U	1,2,4-TRICHLOROBENZENE	3500U	BENZO-A-PYRENE	3500U	2,2'-CHLOROISOPROPYLEETHER	3500U	BENZYL BUTYL PHTHALATE	3500U	BIS (2-CHLOROETHOXY) METHANE	3500U	BIS (2-ETHYLHEXYL) PHTHALATE
3500U	2,3,4,6-TETRACHLOROPHENOL	3500U	2,4,5-TRICHLOROPHENOL	3500U	2,4,6-TRICHLOROPHENOL	3500U	CARBAZOLE	3500U	DIETHYL PHTHALATE	3500U	DIBENZOFURAN
3500U	2,4-DICHLOROPHENOL	3500U	2,4-DIMETHYLPHENOL	3500U	2,4-DINITROPHENOL	3500U	DIETHYL PHTHALATE	3500U	DIMETHYL PHTHALATE	3500U	FLUORENE
7000U	2,4-DINITROPHENOL	3500U	2,4-DINITROTOLUENE	3500U	2,6-DINITROTOLUENE	3500U	DIETHYL PHTHALATE	3500U	FLUORENE	3500U	HEXACHLOROBENZENE (HCB)
3500U	2,6-DINITROTOLUENE	3500U	2-CHLORONAPHTHALENE	3500U	2-CHLOROPHENOL	3500U	DIETHYL PHTHALATE	3500U	HEXACHLOROBUTADIENE	3500U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3500U	2-CHLOROPHENOL	3500U	2-METHYL-4,6-DINITROPHENOL	3500U	2-METHYLNAPHTHALENE	3500U	DIETHYL PHTHALATE	3500U	HEXACHLOROCYCLOPENTADIENE (HCCP)	3500U	INDENO (1,2,3-CD) PYRENE
7000U	2-METHYL-4,6-DINITROPHENOL	3500U	2-METHYLNAPHTHALENE	3500U	2-NITROANILINE	3500U	DIETHYL PHTHALATE	3500U	ISOPHORONE	3500U	N-NITROSODI-N-PROPYLAMINE
3500U	2-METHYLNAPHTHALENE	3500U	2-NITROANILINE	3500U	3,3'-DICHLOROBENZIDINE	3500U	DIETHYL PHTHALATE	3500U	N-NITROSODI-N-PROPYLAMINE	3500U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3500U	2-NITROANILINE	3500U	3,3'-DICHLOROBENZIDINE	3500U	3-NITROANILINE	3500U	DIETHYL PHTHALATE	3500U	NAPHTHALENE	3500U	NITROBENZENE
3500U	3-NITROANILINE	3500U	3-NITROANILINE	3500U	4-BROMOPHENYL PHENYL ETHER	3500U	DIETHYL PHTHALATE	3500U	NITROBENZENE	7000U	PENTACHLOROPHENOL
3500U	4-BROMOPHENYL PHENYL ETHER	3500U	4-CHLORO-3-METHYLPHENOL	3500U	4-CHLOROANILINE	3500U	DIETHYL PHTHALATE	3500U	NITROBENZENE	3500U	PHENANTHRENE
3500U	4-CHLOROANILINE	3500U	4-CHLOROPHENYL PHENYL ETHER	3500U	4-NITROANILINE	3500U	DIETHYL PHTHALATE	3500U	NITROBENZENE	3500U	PHENOL
3500U	4-NITROANILINE	3500U	4-NITROANILINE	3500U	4-NITROPHENOL	3500U	DIETHYL PHTHALATE	3500U	NITROBENZENE	3500U	PYRENE
7000U	4-NITROPHENOL	3500U	ACENAPHTHENE	3500U	ACENAPHTHENE	3500U	DIETHYL PHTHALATE	3500U	NITROBENZENE	3500U	PERCENT MOISTURE
3500U	ACENAPHTHENE	3500U	ANTHRACENE	3500U	ANTHRACENE	3500U	DIETHYL PHTHALATE	3500U	NITROBENZENE	3500U	PERCENT MOISTURE
3500U	ANTHRACENE	3500U	BENZO (A)ANTHRACENE	3500U	BENZO (A)ANTHRACENE	3500U	DIETHYL PHTHALATE	3500U	NITROBENZENE	3500U	PERCENT MOISTURE
3500U	BENZO (A)ANTHRACENE	3500U	BENZO (B AND/OR K)FLUORANTHENE	3500U	BENZO (B AND/OR K)FLUORANTHENE	3500U	DIETHYL PHTHALATE	3500U	NITROBENZENE	3500U	PERCENT MOISTURE
3500U	BENZO (B AND/OR K)FLUORANTHENE	3500U		3500U		3500U	DIETHYL PHTHALATE	3500U	NITROBENZENE	3500U	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 162 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SB-T32-001 COLLECTION START: 10/23/95 1005 STOP: 00/00/00  
\*\*

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

56U	CHLOROMETHANE	56U	CIS-1,3-DICHLOROPROPENE
56U	VINYL CHLORIDE	140U	METHYL ISOBUTYL KETONE
56U	BROMOMETHANE	56U	TOLUENE
56U	CHLOROETHANE	56U	TRANS-1,3-DICHLOROPROPENE
56U	TRICHLOROFLUOROMETHANE	56U	1,1,2-TRICHLOROETHANE
56U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	56U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
560U	ACETONE	56U	1,3-DICHLOROPROPANE
140U	CARBON DISULFIDE	140U	METHYL BUTYL KETONE
56U	METHYLENE CHLORIDE	56U	DIBROMOCHLOROMETHANE
56U	TRANS-1,2-DICHLOROETHENE	56U	CHLOROBENZENE
56U	1,1-DICHLOROETHANE	56U	1,1,1,2-TETRACHLOROETHANE
56U	CIS-1,2-DICHLOROETHENE	56U	ETHYL BENZENE
56U	2,2-DICHLOROPROPANE	56U	(M- AND/OR P-) XYLENE
560U	METHYL ETHYL KETONE	56U	O-XYLENE
56U	BROMOCHLOROMETHANE	56U	STYRENE
56U	CHLOROFORM	56U	BROMOFORM
56U	1,1,1-TRICHLOROETHANE	56U	BROMOBENZENE
56U	1,1-DICHLOROPROPENE	56U	1,1,2,2-TETRACHLOROETHANE
56U	CARBON TETRACHLORIDE	56U	1,2,3-TRICHLOROPROPANE
56U	1,2-DICHLOROETHANE	56U	O-CHLOROTOLUENE
56U	BENZENE	56U	P-CHLOROTOLUENE
56U	TRICHLOROETHENE(TRICHLOROETHYLENE)	56U	1,3-DICHLOROBENZENE
56U	1,2-DICHLOROPROPANE	56U	1,4-DICHLOROBENZENE
56U	DIBROMOMETHANE	56U	1,2-DICHLOROBENZENE
56U	BROMODICHLOROMETHANE	56U	PERCENT MOISTURE
		18.3	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS  
EPA-REGION IV ES

GEMENT SYSTEM  
ATHENS, GA.

5/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 165 SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SB-T35-001

PROG ELEM: SSF COLLECTED BY: J VAIL

CITY: PENSACOLA ST: FL

COLLECTION START: 10/23/95 1330 STOP: 00/00/00

ANALYTICAL RESULTS

MG/KG	150	CALCIUM
1.00	14	MAGNESIUM
3.00	150	IRON
NA	1000	SODIUM
1.3	2000	POTASSIUM
0.500	18	PERCENT MOISTURE
0.500		
1.00		
1.00		
1.8		
1.00		
2.00		
5.0		
3.00		
4.00		
3.00		
1.00		
5.00		
4.1		
100		
1.00		
1.00		
3.8		
NA		
0.09		
180		
15		

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 165 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T35-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/23/95 1330 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.24U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS I GEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11, 27/95

# EXTRACTABLE ORGANICS DATA REPORT

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** PROJECT NO. 96-0002 SAMPLE NO. 165 SAMPLE TYPE: SOIL          PROG ELEM: SSF COLLECTED BY: J VAIL          **
** SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL          **
** STATION ID: SB-T35-001 COLLECTION START: 10/23/95 1330 STOP: 00/00/00 **

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ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
3800U	(3-AND/OR 4-) METHYLPHENOL	3800U	BENZO (GHI) PERYLENE
3800U	1,2,4-TRICHLOROBENZENE	3800U	BENZO-A-PYRENE
3800U	2,2'-CHLOROISOPROPYLETHER	3800U	BENZYL BUTYL PHTHALATE
3800U	2,3,4,6-TETRACHLOROPHENOL	3800U	BIS(2-CHLOROETHOXY) METHANE
3800U	2,4,5-TRICHLOROPHENOL	3800U	BIS(2-CHLOROETHYL) ETHER
3800U	2,4,6-TRICHLOROPHENOL	3800U	BIS(2-ETHYLHEXYL) PHTHALATE
3800U	2,4-DICHLOROPHENOL	3800U	CARBAZOLE
3800U	2,4-DIMETHYLPHENOL	3800U	CHRYSENE
7500U	2,4-DINITROPHENOL	3800U	DI-N-BUTYL PHTHALATE
3800U	2,4-DINITROTOLUENE	3800U	DI-N-OCTYL PHTHALATE
3800U	2,6-DINITROTOLUENE	3800U	DIBENZO(A,H)ANTHRACENE
3800U	2-CHLORONAPHTHALENE	3800U	DIBENZOFURAN
3800U	2-CHLOROPHENOL	3800U	DIETHYL PHTHALATE
7500U	2-METHYL-4,6-DINITROPHENOL	3800U	DIMETHYL PHTHALATE
3800U	2-METHYLNAPHTHALENE	3800U	FLUORANTHENE
3800U	2-METHYLPHENOL	3800U	FLUORENE
3800U	2-NITROANILINE	3800U	HEXACHLOROBENZENE (HCB)
3800U	2-NITROPHENOL	3800U	HEXACHLOROBUTADIENE
3800U	3,3'-DICHLOROBENZIDINE	3800U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3800U	3-NITROANILINE	3800U	HEXACHLOROETHANE
3800U	4-BROMOPHENYL PHENYL ETHER	3800U	INDENO (1,2,3 CD) PYRENE
3800U	4-CHLORO-3-METHYLPHENOL	3800U	ISOPHORONE
3800U	4-CHLOROANILINE	3800U	N-NITROSODI-N-PROPYLAMINE
3800U	4-CHLOROPHENYL PHENYL ETHER	3800U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3800U	4-NITROANILINE	3800U	NAPHTHALENE
7500U	4-NITROPHENOL	3800U	NITROBENZENE
3800U	ACENAPHTHENE	7500U	PENTACHLOROPHENOL
3800U	ACENAPHTHYLENE	3800U	PHENANTHRENE
3800U	ANTHRACENE	3800U	PHENOL
3800U	BENZO(A)ANTHRACENE	3800U	PYRENE
3800U	BENZO(B AND/OR K) FLUORANTHENE	16.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*FOOTNOTES\*\*  
 \*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 165 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T35-001  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.  
12/04/95  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1330 STOP: 00/00/00

ANALYTICAL RESULTS										ANALYTICAL RESULTS									
UG/KG										UG/KG									
46U	CHLOROMETHANE									46U	CIS-1,3-DICHLOROPROPENE								
46U	VINYL CHLORIDE									120U	METHYL ISOBUTYL KETONE								
46U	BROMOMETHANE									46U	TOLUENE								
46U	CHLOROETHANE									46U	TRANS-1,3-DICHLOROPROPENE								
46U	TRICHLOROFLUOROMETHANE									46U	1,1,2-TRICHLOROETHANE								
46U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)									46U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)								
460U	ACETONE									46U	1,3-DICHLOROPROPANE								
120U	CARBON DISULFIDE									120U	METHYL BUTYL KETONE								
46U	METHYLENE CHLORIDE									46U	DIBROMOCHLOROMETHANE								
46U	TRANS-1,2-DICHLOROETHENE									46U	CHLOROBENZENE								
46U	1,1-DICHLOROETHANE									46U	1,1,1,2-TETRACHLOROETHANE								
46U	CIS-1,2-DICHLOROETHENE									46U	ETHYL BENZENE								
46U	2,2-DICHLOROPROPANE									46U	(M- AND/OR P-) XYLENE								
460U	METHYL ETHYL KETONE									46U	O-XYLENE								
46U	BROMOCHLOROMETHANE									46U	STYRENE								
46U	CHLOROFORM									46U	BROMOFORM								
46U	1,1,1-TRICHLOROETHANE									46U	BROMOBENZENE								
46U	1,1-DICHLOROPROPENE									46U	1,1,2,2-TETRACHLOROETHANE								
46U	CARBON TETRACHLORIDE									46U	1,2,3-TRICHLOROPROPANE								
46U	1,2-DICHLOROETHANE									46U	O-CHLOROTOLUENE								
46U	BENZENE									46U	P-CHLOROTOLUENE								
46U	TRICHLOROETHENE (TRICHLOROETHYLENE)									46U	1,3-DICHLOROBENZENE								
46U	1,2-DICHLOROPROPANE									46U	1,4-DICHLOROBENZENE								
46U	DIBROMOMETHANE									46U	1,2-DICHLOROBENZENE								
46U	BROMODICHLOROMETHANE									16.8	PERCENT MOISTURE								

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS EPA-REGION IV ES. GEMENT SYSTEM ATHENS, GA. 1 5/95

METALS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 186 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T36-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1620 STOP: 00/00/00

ANALYTICAL RESULTS									
MG/KG									
1.00	SILVER	50U	CALCIUM						
3.00	ARSENIC	10U	MAGNESIUM						
NA	BORON	37	IRON						
1.00	BARIUM	100U	SODIUM						
0.50U	BERYLLIUM	200U	POTASSIUM						
0.50U	CADMIUM	18	PERCENT MOISTURE						
1.00	COBALT								
1.00	CHROMIUM								
1.00	COPPER								
1.00	MOLYBDENUM								
2.00	NICKEL								
4.00	LEAD								
3.00	ANTIMONY								
4.00	SELENIUM								
3.00	TIN								
1.00	STRONTIUM								
5.00	TELLURIUM								
7.6	TITANIUM								
10U	THALLIUM								
1.00	VANADIUM								
1.00	YTTRIUM								
1.00	ZINC								
NA	ZIRCONIUM								
0.05U	MERCURY								
53	ALUMINUM								
1.00	MANGANESE								

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*A-ESTIMATED VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN





SAMPLE AND ANALYSIS  
EPA-REGION IV ES  
ATHENS, GA.

# EXTRACTABLE ORGANICS DATA REPORT

\*\* PROJECT NO. 96-0002      SAMPLE NO. 186      SAMPLE TYPE: SOIL      PROG ELEM: SSF      COLLECTED BY: D HUNTER  
 \*\* SOURCE: NAS PENSACOLA      CITY: PENSACOLA      ST: FL  
 \*\* STATION ID: SB-T36-001      COLLECTION START: 10/23/95      1620      STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
3400U	(3-AND/OR 4-)METHYLPHENOL	3400U	BENZO (GHI) PERYLENE
3400U	1,2,4- TRICHLOROBENZENE	3400U	BENZO-A- PYRENE
3400U	2,2'-CHLOROISOPROPYLETHER	3400U	BENZYL BUTYL PHTHALATE
3400U	2,3,4,6-TETRACHLOROPHENOL	3400U	BIS(2-CHLOROETHOXY) METHANE
3400U	2,4,5- TRICHLOROPHENOL	3400U	BIS(2-CHLOROETHYL) ETHER
3400U	2,4,6- TRICHLOROPHENOL	3400U	BIS(2-ETHYLHEXYL) PHTHALATE
3400U	2,4-DI CHLOROPHENOL	3400U	CARBAZOLE
3400U	2,4-DIMETHYLPHENOL	3400U	CHRYSENE
6900U	2,4-DINITROPHENOL	3400U	DI-N-BUTYLPHTHALATE
3400U	2,4-DINITROTOLUENE	3400U	DI-N-OCTYLPHTHALATE
3400U	2,6-DINITROTOLUENE	3400U	DIBENZO (A, H) ANTHRACENE
3400U	2-CHLORONAPHTHALENE	3400U	DIBENZOFURAN
3400U	2-CHLOROPHENOL	3400U	DIETHYL PHTHALATE
6900U	2-METHYL-4,6-DINITROPHENOL	3400U	DIMETHYL PHTHALATE
3400U	2-METHYLNAPHTHALENE	3400U	FLUORANTHENE
3400U	2-NITROANILINE	3400U	FLUORENE
3400U	2-NITROPHENOL	3400U	HEXACHLOROBENZENE (HCB)
3400U	3,3'-DICHLOROBENZIDINE	3400U	HEXACHLOROBUTADIENE
3400U	3-NITROANILINE	3400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3400U	4-BROMOPHENYL PHENYL ETHER	3400U	HEXACHLOROETHANE
3400U	4-CHLORO-3-METHYLPHENOL	3400U	INDENO (1,2,3-CD) PYRENE
3400U	4-CHLOROPHENYL PHENYL ETHER	3400U	ISOPHORONE
3400U	4-NITROANILINE	3400U	N-NITROSODI-N-PROPYLAMINE
6900U	4-NITROPHENOL	3400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3400U	ACENAPHTHENE	3400U	NAPHTHALENE
3400U	ACENAPHTYLENE	3400U	NITROBENZENE
3400U	ANTHRACENE	6900U	PENTACHLOROPHENOL
3400U	BENZO (A) ANTHRACENE	3400U	PHENANTHRENE
3400U	BENZO (B AND/OR K) FLUORANTHENE	3400U	PHENOL
		3400U	PYRENE
		18.0	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 186 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T36-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: D HUNTER  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/23/95 1620 STOP: 00/00/00

\*\*\* UG/KG ANALYTICAL RESULTS  
\*\*\* UG/KG ANALYTICAL RESULTS

51U	CHLOROMETHANE	51U	CIS-1,3-DICHLOROPROPENE
51U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
51U	BROMOMETHANE	51U	TOLUENE
51U	CHLOROETHANE	51U	TRANS-1,3-DICHLOROPROPENE
51U	TRICHLOROFLUOROMETHANE	51U	1,1,2-TRICHLOROETHANE
51U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	51U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
510U	ACETONE	51U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
51U	METHYLENE CHLORIDE	51U	DIBROMOCHLOROMETHANE
51U	TRANS-1,2-DICHLOROETHENE	51U	CHLOROBENZENE
51U	1,1-DICHLOROETHANE	51U	1,1,1,2-TETRACHLOROETHANE
51U	CIS-1,2-DICHLOROETHENE	51U	ETHYL BENZENE
51U	2,2-DICHLOROPROPANE	51U	(M- AND/OR P-) XYLENE
510U	METHYL ETHYL KETONE	51U	O-XYLENE
51U	BROMOCHLOROMETHANE	51U	STYRENE
51U	CHLOROFORM	51U	BROMOFORM
51U	1,1,1-TRICHLOROETHANE	51U	BROMOBENZENE
51U	1,1-DICHLOROPROPENE	51U	1,1,2,2-TETRACHLOROETHANE
51U	CARBON TETRACHLORIDE	51U	1,2,3-TRICHLOROPROPANE
51U	1,2-DICHLOROETHANE	51U	O-CHLOROTOLUENE
51U	BENZENE	51U	P-CHLOROTOLUENE
51U	TRICHLOROETHENE (TRICHLOROETHYLENE)	51U	1,3-DICHLOROBENZENE
51U	1,2-DICHLOROPROPANE	51U	1,4-DICHLOROBENZENE
51U	DIBROMOMETHANE	51U	1,2-DICHLOROBENZENE
51U	BROMODICHLOROMETHANE	51U	PERCENT MOISTURE
		18.0	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 187 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: SB-T37-001 COLLECTION START: 10/23/95 1630 STOP: 00/00/00 \*\*  
\*\*\* \*\* \*\* \*\* \*\*

RESULTS UNITS PARAMETER  
0.24U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM 4  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 187 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T37-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1630 STOP: 00/00/00

ANALYTICAL RESULTS  
UG/KG

49U	CHLOROMETHANE	49U	CIS-1,3-DICHLOROPROPENE
49U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
49U	BROMOMETHANE	49U	TOLUENE
49U	CHLOROETHANE	49U	TRANS-1,3-DICHLOROPROPENE
49U	TRICHLOROFLUOROMETHANE	49U	1,1,2-TRICHLOROETHANE
49U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	49U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
490U	ACETONE	49U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
49U	METHYLENE CHLORIDE	49U	DIBROMOCHLOROMETHANE
49U	TRANS-1,2-DICHLOROETHENE	49U	CHLOROBENZENE
49U	1,1-DICHLOROETHANE	49U	1,1,1,2-TETRACHLOROETHANE
49U	CIS-1,2-DICHLOROETHENE	49U	ETHYL BENZENE
49U	2,2-DICHLOROPROPANE	49U	(M- AND/OR P-) XYLENE
490U	METHYL ETHYL KETONE	49U	O-XYLENE
49U	BROMOCHLOROMETHANE	49U	STYRENE
49U	CHLOROFORM	49U	BROMOFORM
49U	1,1,1-TRICHLOROETHANE	49U	BROMOBENZENE
49U	1,1-DICHLOROPROPENE	49U	1,1,2,2-TETRACHLOROETHANE
49U	CARBON TETRACHLORIDE	49U	1,2,3-TRICHLOROPROPANE
49U	1,2-DICHLOROETHANE	49U	O-CHLOROTOLUENE
49U	BENZENE	49U	P-CHLOROTOLUENE
49U	TRICHLOROETHENE (TRICHLOROETHYLENE)	49U	1,3-DICHLOROBENZENE
49U	1,2-DICHLOROPROPANE	49U	1,4-DICHLOROBENZENE
49U	DIBROMOMETHANE	49U	1,2-DICHLOROBENZENE
49U	BROMODICHLOROMETHANE	49U	PERCENT MOISTURE
		14.7	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002                    SAMPLE NO.                    92                    SAMPLE TYPE: SOIL                    PROG ELEM: SSF                    COLLECTED BY: F SLOAN                    \*\*\*  
\*\* SOURCE: NAS PENSACOLA                    CITY: PENSACOLA                    ST: FL                    STOP: 00/00/00                    \*\*\*  
\*\* STATION ID: SB-T01-001                    COLLECTION START: 10/17/95                    1140                    \*\*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

MG/KG

1.0U SILVER                    50U CALCIUM  
3.0U ARSENIC                    11 MAGNESIUM  
NA BORON                    150 IRON  
1.0U BARIUM                    100U SODIUM  
0.50U BERYLLIUM                    200U POTASSIUM  
0.50U CADMIUM                    21 PERCENT MOISTURE  
1.0U COBALT  
1.0U CHROMIUM  
1.1 COPPER  
1.0U MOLYBDENUM  
2.0U NICKEL  
5.3 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
3.0U TIN  
1.0U STRONTIUM  
5.0U TELLURIUM  
5.0 TITANIUM  
10U THALLIUM  
1.0U VANADIUM  
1.0U YTTRIUM  
2.7 ZINC  
NA ZIRCONIUM  
0.04U MERCURY  
140 ALUMINUM  
1.7 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*                    \*NAI-INTERFERENCES                    \*J-ESTIMATED VALUE                    \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*A-AVERAGE VALUE                    \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN                    \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 92 \*\*\*  
\*\* SOURCE: NAS PENSACOLA \*\*\*  
\*\* STATION ID: SB-T01-001 \*\*\*  
\*\*\* ANALYTICAL RESULTS \*\*\*  
\*\*\* ANALYTICAL RESULTS \*\*\*  
\*\*\* ANALYTICAL RESULTS \*\*\*

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
4200U	(3- AND/OR 4-) METHYLPHENOL	4200U	BENZO(GHI) PERYLENE
4200U	1,2,4-TRICHLOROBENZENE	4200U	BENZO-A-PYRENE
4200U	2,2'-CHLOROISOPROPYLETHYER	4200U	BENZYL BUTYL PHTHALATE
4200U	2,3,4,6-TETRACHLOROPHENOL	4200U	BIS(2-CHLOROETHOXY) METHANE
4200U	2,4,5-TRICHLOROPHENOL	4200U	BIS(2-CHLOROETHYL) ETHER
4200U	2,4,6-TRICHLOROPHENOL	4200U	BIS(2-ETHYLHEXYL) PHTHALATE
4200U	2,4-DICHLOROPHENOL	4200U	CARBAZOLE
4200U	2,4-DIMETHYLPHENOL	4200U	CHRYSENE
8400.U	2,4-DINITROPHENOL	4200U	DI-N-BUTYL PHTHALATE
4200U	2,4-DINITROTOLUENE	4200U	DI-N-OCTYL PHTHALATE
4200U	2,6-DINITROTOLUENE	4200U	DIBENZO(A,H) ANTHRACENE
4200U	2-CHLORONAPHTHALENE	4200U	DIBENZOFURAN
4200U	2 CHLOROPHENOL	4200U	DIETHYL PHTHALATE
8400.U	2-METHYL 4,6-DINITROPHENOL	4200U	DIMETHYL PHTHALATE
4200U	2-METHYLNAPHTHALENE	4200U	FLUORANTHENE
4200U	2-METHYLPHENOL	4200U	FLUORENE
4200U	2-NITROANILINE	4200U	HEXACHLOROBENZENE (HCB)
4200U	2-NITROPHENOL	4200U	HEXACHLOROBUTADIENE
4200U	3,3'-DICHLOROBENZIDINE	4200U	HEXACHLOROCYCLOPENTADIENE (HCCP)
4200U	3 NITROANILINE	4200U	HEXACHLOROETHANE
4200U	4-BROMOPHENYL PHENYL ETHER	4200U	INDENO (1,2,3 CD) PYRENE
4200U	4-CHLORO-3-METHYLPHENOL	4200U	ISOPHORONE
4200U	4 CHLOROANILINE	4200U	N-NITROSODI-N PROPYLAMINE
4200U	4 CHLOROPHENYL PHENYL ETHER	4200U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4200U	4 NITROANILINE	4200U	NAPHTHALENE
8400.U	4 NITROPHENOL	4200U	NITROBENZENE
4200U	ACENAPHTHENE	8400.U	NITROBENZENE
4200U	ACENAPHTHYLENE	4200U	PENTACHLOROPHENOL
4200U	ANTHRACENE	4200U	PHENANTHRENE
4200U	BENZO(A)ANTHRACENE	4200U	PHENOL
4200U	BENZO(B AND/OR K)FLUORANTHENE	4200U	PYRENE
		21.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

## 11/16/95

\*\*\*REMARKS\*\*\*

\*\* FOOTNOTES \*\*  
 \*A- AVERAGE VALUE      \*NA- NOT ANALYZED      \*N- INTERFERENCES      \*J- ESTIMATED VALUE      \*N- PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K- ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L- ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U- MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT  
\*\*\* PROJECT NO. 96-0002      SAMPLE NO. 93      SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T03-001  
\*\*\*      PROG ELEM: SSF      COLLECTED BY: F SLOAN  
\*\*\*      CITY: PENSACOLA      ST: FL  
\*\*\*      COLLECTION START: 10/17/95 1525      STOP: 00/00/00

ANALYTICAL RESULTS										ANALYTICAL RESULTS									
MG/KG					MG/KG					MG/KG					MG/KG				
1.00	SILVER	1.00	CALCIUM	1500	1.00	SILVER	1.00	CALCIUM	1500	1.00	SILVER	1.00	CALCIUM	1500	1.00	SILVER	1.00	CALCIUM	1500
3.00	ARSENIC	3.00	MAGNESIUM	380	3.00	ARSENIC	3.00	MAGNESIUM	380	3.00	ARSENIC	3.00	MAGNESIUM	380	3.00	ARSENIC	3.00	MAGNESIUM	380
NA	BORON	NA	IRON	1700	NA	BORON	NA	IRON	1700	NA	BORON	NA	IRON	1700	NA	BORON	NA	IRON	1700
12	BARIUM	12	SODIUM	120	12	BARIUM	12	SODIUM	120	12	BARIUM	12	SODIUM	120	12	BARIUM	12	SODIUM	120
0.50U	BERYLLIUM	0.50U	POTASSIUM	200U	0.50U	BERYLLIUM	0.50U	POTASSIUM	200U	0.50U	BERYLLIUM	0.50U	POTASSIUM	200U	0.50U	BERYLLIUM	0.50U	POTASSIUM	200U
0.50U	CADMIUM	0.50U	PERCENT MOISTURE	12	0.50U	CADMIUM	0.50U	PERCENT MOISTURE	12	0.50U	CADMIUM	0.50U	PERCENT MOISTURE	12	0.50U	CADMIUM	0.50U	PERCENT MOISTURE	12
1.00	COBALT	1.00			1.00	COBALT	1.00			1.00	COBALT	1.00			1.00	COBALT	1.00		
4.4	CHROMIUM	4.4			4.4	CHROMIUM	4.4			4.4	CHROMIUM	4.4			4.4	CHROMIUM	4.4		
15	COPPER	15			15	COPPER	15			15	COPPER	15			15	COPPER	15		
1.00	MOLYBDENUM	1.00			1.00	MOLYBDENUM	1.00			1.00	MOLYBDENUM	1.00			1.00	MOLYBDENUM	1.00		
3.4	NICKEL	3.4			3.4	NICKEL	3.4			3.4	NICKEL	3.4			3.4	NICKEL	3.4		
65	LEAD	65			65	LEAD	65			65	LEAD	65			65	LEAD	65		
3.00	ANTIMONY	3.00			3.00	ANTIMONY	3.00			3.00	ANTIMONY	3.00			3.00	ANTIMONY	3.00		
4.00	SELENIUM	4.00			4.00	SELENIUM	4.00			4.00	SELENIUM	4.00			4.00	SELENIUM	4.00		
4.5U	TIN	4.5U			4.5U	TIN	4.5U			4.5U	TIN	4.5U			4.5U	TIN	4.5U		
4.2	STRONTIUM	4.2			4.2	STRONTIUM	4.2			4.2	STRONTIUM	4.2			4.2	STRONTIUM	4.2		
5.0U	TELLURIUM	5.0U			5.0U	TELLURIUM	5.0U			5.0U	TELLURIUM	5.0U			5.0U	TELLURIUM	5.0U		
30	TITANIUM	30			30	TITANIUM	30			30	TITANIUM	30			30	TITANIUM	30		
100	THALLIUM	100			100	THALLIUM	100			100	THALLIUM	100			100	THALLIUM	100		
3.6	VANADIUM	3.6			3.6	VANADIUM	3.6			3.6	VANADIUM	3.6			3.6	VANADIUM	3.6		
1.00	YTTRIUM	1.00			1.00	YTTRIUM	1.00			1.00	YTTRIUM	1.00			1.00	YTTRIUM	1.00		
35	ZINC	35			35	ZINC	35			35	ZINC	35			35	ZINC	35		
NA	ZIRCONIUM	NA			NA	ZIRCONIUM	NA			NA	ZIRCONIUM	NA			NA	ZIRCONIUM	NA		
0.10	MERCURY	0.10			0.10	MERCURY	0.10			0.10	MERCURY	0.10			0.10	MERCURY	0.10		
1700	ALUMINUM	1700			1700	ALUMINUM	1700			1700	ALUMINUM	1700			1700	ALUMINUM	1700		
29	MANGANESE	29			29	MANGANESE	29			29	MANGANESE	29			29	MANGANESE	29		

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





EXTRACTABLE ORGANICS DATA REPORT

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PROJECT NO. 96-0002    SAMPLE NO. 93    93    SAMPLE TYPE: SOIL

PROG ELEM: SSF    COLLECTED BY: F SLOAN

SOURCE: NAS PENSACOLA    CITY: PENSACOLA    ST: FL

STATION ID: SB-T03-001    COLLECTION START: 10/17/95    1525    STOP: 00/00/00

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ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
39000	(3- AND/OR 4-) METHYLPHENOL	39000	BENZO (GHI) PERYLENE
39000	1,2,4-TRICHLOROBENZENE	39000	BENZO-A-PYRENE
39000	2,2'-CHLOROISOPROPYLEETHER	39000	BENZYL BUTYL PHTHALATE
39000	2,3,4,6-TETRACHLOROPHENOL	39000	BIS(2-CHLOROETHOXY) METHANE
39000	2,4,5-TRICHLOROPHENOL	39000	BIS(2-CHLOROETHYL) ETHER
39000	2,4,6-TRICHLOROPHENOL	39000	BIS(2-ETHYLHEXYL) PHTHALATE
39000	2,4-DICHLOROPHENOL	39000	CARBAZOLE
39000	2,4-DIMETHYLPHENOL	39000	CHRYSENE
79000	2,4-DINITROPHENOL	39000	DI N-BUTYLPHTHALATE
39000	2,4-DINITROTOLUENE	39000	DI N-OCTYLPHTHALATE
39000	2,6-DINITROTOLUENE	39000	DIBENZO(A,H)FNTHRACENE
39000	2-CHLORONAPHTHALENE	39000	DIBENZOFURAN
39000	2-CHLOROPHENOL	39000	DIETHYL PHTHALATE
79000	2-METHYL-4,6-DINITROPHENOL	39000	DIMETHYL PHTHALATE
39000	2-METHYLNAPHTHALENE	39000	FLUORANTHENE
39000	2-METHYLPHENOL	39000	FLUORENE
39000	2-NITROANILINE	39000	HEXACHLOROBENZENE (HCB)
39000	2-NITROPHENOL	39000	HEXACHLOROBUTADIENE
39000	3,3'-DICHLOROBENZIDINE	39000	HEXACHLOROCYCLOPENTADIENE (HCCP)
39000	3-NITROANILINE	39000	HEXACHLOROETHANE
39000	4-BROMOPHENYL PHENYL ETHER	39000	INDENO (1,2,3-CD) PYRENE
39000	4-CHLORO-3-METHYLPHENOL	39000	ISOPHORONE
39000	4-CHLOROANILINE	39000	N-NITROSODI-N-PROPYLAMINE
39000	4-CHLOROPHENYL PHENYL ETHER	39000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
39000	4-NITROANILINE	39000	NAPHTHALENE
79000	4-NITROPHENOL	39000	NITROBENZENE
39000	ACENAPHTHENE	79000	PENTACHLOROPHENOL
39000	ACENAPHTHYLENE	39000	PHENANTHRENE
39000	ANTHRACENE	39000	PHENOL
39000	BENZO (A) ANTHRACENE	39000	PYRENE
39000	BENZO (B AND/OR K) FLUORANTHENE	10.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*A-NOT ANALYZED

\*J-ESTIMATED VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*NAI-INTERFERENCES

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 93 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL  
\*\* STATION ID: SB-T03-001 COLLECTION START: 10/17/95 1525 STOP: 00/00/00  
\*\* \*\* \*\* \*\* \*\* \*\* \*\*

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
80U	CHLOROMETHANE	80U	CIS-1,3-DICHLOROPROPENE
80U	VINYL CHLORIDE	200U	METHYL ISOBUTYL KETONE
80U	BROMOMETHANE	80U	TOLUENE
80U	CHLOROETHANE	80U	TRANS-1,3-DICHLOROPROPENE
80U	TRICHLOROFLUOROMETHANE	80U	1,1,2-TRICHLOROETHANE
80U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	80U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
800U	ACETONE	80U	1,3-DICHLOROPROPANE
200U	CARBON DISULFIDE	200U	METHYL BUTYL KETONE
80U	METHYLENE CHLORIDE	80U	DIBROMOCHLOROMETHANE
80U	TRANS-1,2-DICHLOROETHENE	80U	CHLOROBENZENE
80U	1,1-DICHLOROETHANE	80U	1,1,1,2-TETRACHLOROETHANE
80U	CIS-1,2-DICHLOROETHENE	80U	ETHYL BENZENE
80U	2,2-DICHLOROPROPANE	80U	(M- AND/OR P-) XYLENE
800U	METHYL ETHYL KETONE	80U	O-XYLENE
80U	BROMOCHLOROMETHANE	80U	STYRENE
80U	CHLOROFORM	80U	BROMOFORM
80U	1,1,1-TRICHLOROETHANE	80U	BROMOBENZENE
80U	1,1-DICHLOROPROPENE	80U	1,1,2,2-TETRACHLOROETHANE
80U	CARBON TETRACHLORIDE	80U	1,2,3-TRICHLOROPROPANE
80U	1,2-DICHLOROETHANE	80U	O-CHLOROTOLUENE
80U	BENZENE	80U	P-CHLOROTOLUENE
80U	TRICHLOROETHENE (TRICHLOROETHYLENE)	80U	1,3-DICHLOROBENZENE
80U	1,2-DICHLOROPROPANE	80U	1,4-DICHLOROBENZENE
80U	DIBROMOMETHANE	80U	1,2-DICHLOROBENZENE
80U	BROMODICHLOROMETHANE	10.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS ' GEMENT SYSTEM  
EPA-REGION IV ES1 THENS, GA.

1 ,/95

METALS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 96  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T06-001

PROG ELEM: SSF

CITY: PENSACOLA

COLLECTION START: 10/18/95 0810 STOP: 00/00/00

COLLECTED BY: F SLOAN

ST: FL

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.00 SILVER 83 CALCIUM  
3.00 ARSENIC 24 MAGNESIUM  
NA BORON 92 IRON  
1.00 BARIUM 100U SODIUM  
0.50U BERYLLIUM 200U POTASSIUM  
0.50U CADMIUM 18 PERCENT MOISTURE  
1.00 COBALT  
1.00 CHROMIUM  
1.00 COPPER  
1.00 MOLYBDENUM  
2.00 NICKEL  
8.9 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
3.00 TIN  
1.00 STRONTIUM  
5.00 TELLURIUM  
3.4 TITANIUM  
10U THALLIUM  
1.0U VANADIUM  
1.0U YTTRIUM  
3.6 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
110 ALUMINUM  
2.9 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

12/18/95

## SPECIFIED ANALYSIS DATA REPORT

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** PROJECT NO. 96-0002 SAMPLE NO. 96 SAMPLE TYPE: SOIL **
** SOURCE: NAS PENSACOLA **          PROG ELEM: SSF      COLLECTED BY: F SLOAN **
** STATION ID: SB-T06-001 **        CITY: PENSACOLA   ST: FL         **
**                                     COLLECTION START: 10/18/95 0810 STOP: 00/00/00 **

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RESULTS	UNITS	PARAMETER
0.24U	MG/KG	CYANIDE

## ♦♦♦ FOOTNOTES ♦♦♦

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 96 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T06-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/18/95 0810 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
53U	CHLOROMETHANE	53U	CIS-1,3-DICHLOROPROPENE
53U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
53U	BROMOMETHANE	53U	TOLUENE
53U	CHLOROETHANE	53U	TRANS-1,3-DICHLOROPROPENE
53U	TRICHLOROFLUOROMETHANE	53U	1,1,2-TRICHLOROETHANE
53U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	53U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
530U	ACETONE	53U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
53U	METHYLENE CHLORIDE	53U	DIBROMOCHLOROMETHANE
53U	TRANS-1,2-DICHLOROETHENE	53U	CHLOROBENZENE
53U	1,1-DICHLOROETHANE	53U	1,1,1,2-TETRACHLOROETHANE
53U	CIS-1,2-DICHLOROETHENE	53U	ETHYL BENZENE
53U	2,2-DICHLOROPROPANE	53U	(M- AND/OR P-) XYLENE
530U	METHYL ETHYL KETONE	53U	O-XYLENE
53U	BROMOCHLOROMETHANE	53U	STYRENE
53U	CHLOROFORM	53U	BROMOFORM
53U	1,1,1-TRICHLOROETHANE	53U	BROMOBENZENE
53U	1,1-DICHLOROPROPENE	53U	1,1,2,2-TETRACHLOROETHANE
53U	CARBON TETRACHLORIDE	53U	1,2,3-TRICHLOROPROPANE
53U	1,2-DICHLOROETHANE	53U	O-CHLOROTOLUENE
53U	BENZENE	53U	P-CHLOROTOLUENE
53U	TRICHLOROETHENE (TRICHLOROETHYLENE)	53U	1,3-DICHLOROBENZENE
53U	1,2-DICHLOROPROPANE	53U	1,4-DICHLOROBENZENE
53U	DIBROMOMETHANE	53U	1,2-DICHLOROBENZENE
53U	BROMODICHLOROMETHANE	21.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 97 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T07-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 0855 STOP: 00/00/00

ANALYTICAL RESULTS

MG/KG	50U	CALCIUM
1.0U	10U	MAGNESIUM
3.0U	18	IRON
1.0U	100U	SODIUM
0.50U	200U	POTASSIUM
0.50U	19	PERCENT MOISTURE

ANALYTICAL RESULTS

MG/KG	50U	CALCIUM
1.0U	10U	MAGNESIUM
3.0U	18	IRON
1.0U	100U	SODIUM
0.50U	200U	POTASSIUM
0.50U	19	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 97 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T07-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/18/95 0855 STOP: 00/00/00  
\*\*\*

RESULTS UNITS PARAMETER  
0.25U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS  
EPA REGION IV ES

GEMENT SYSTEM  
ATHENS, GA.

18/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96 0002

SAMPLE NO. 97

SOURCE: NAS PENSACOLA

STATION ID: SB-T07-001

PROG ELEM: SSF

CITY: PENSACOLA

COLLECTION START: 10/18/95

STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

37000	(3-AND/OR 4-)METHYLPHENOL	37000	BENZO (GHI) PHTHALENE
37000	1,2,4-TRICHLOROBENZENE	37000	BENZO-A-PYRENE
37000	2,2'-CHLOROISOPROPYLETHER	37000	BENZYL BUTYL PHTHALATE
37000	2,3,4,6-TETRACHLOROPHENOL	37000	BIS (2-CHLOROETHOXY) METHANE
37000	2,4,5-TRICHLOROPHENOL	37000	BIS (2-CHLOROETHYL) ETHER
37000	2,4,6-TRICHLOROPHENOL	37000	BIS (2-ETHYLHEXYL) PHTHALATE
37000	2,4-DICHLOROPHENOL	37000	CARBAZOLE
37000	2,4-DIMETHYLPHENOL	37000	CHRYSENE
75000	2,4-DINITROPHENOL	37000	DI-N-BUTYLPHTHALATE
37000	2,4-DINITROTOLUENE	37000	DI-N-OCTYLPHTHALATE
37000	2,6-DINITROTOLUENE	37000	DIBENZO (A, H) ANTHRACENE
37000	2-CHLORONAPHTHALENE	37000	DIBENZOFURAN
37000	2-CHLOROPHENOL	37000	DIETHYL PHTHALATE
75000	2-METHYL 4,6-DINITROPHENOL	37000	DIMETHYL PHTHALATE
37000	2-METHYLNAPHTHALENE	37000	FLUORANTHENE
37000	2-METHYLPHENOL	37000	FLUORENE
37000	2-NITROANILINE	37000	HEXACHLOROBENZENE (HCB)
37000	2-NITROPHENOL	37000	HEXACHLOROBUTADIENE
37000	3,3'-DICHLOROBENZIDINE	37000	HEXACHLOROCYCLOPENTADIENE (HCCP)
37000	3-NITROANILINE	37000	HEXACHLOROETHANE
37000	4-BROMOPHENYL PHENYL ETHER	37000	INDENO (1,2,3 CD) PYRENE
37000	4-CHLORO-3-METHYLPHENOL	37000	ISOPHORONE
37000	4-CHLOROANILINE	37000	N-NITROSODI-N-PROPYLAMINE
37000	4-CHLOROPHENYL PHENYL ETHER	37000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
37000	4-NITROANILINE	37000	NAPHTHALENE
75000	4-NITROPHENOL	37000	NITROBENZENE
37000	ACENAPHTHENE	75000	PENTACHLOROPHENOL
37000	ACENAPHTHYLENE	37000	PHENANTHRENE
37000	ANTHRACENE	37000	PHENOL
37000	BENZO (A) ANTHRACENE	37000	PYRENE
37000	BENZO (B AND/OR K) FLUORANTHENE	20.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

## 11/16/95

## 11/16/95

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11/16/95

11/16/95

11/16/95

\*\*\*REMARKS\*\*\*

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 98  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T08-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1115 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
MG/KG		MG/KG	
1.00	SILVER	210	CALCIUM
3.00	ARSENIC	41	MAGNESIUM
NA	BORON	710	IRON
3.7	BARIUM	1000	SODIUM
0.500	BERYLLIUM	2000	POTASSIUM
1.7	CADMIUM	19	PERCENT MOISTURE
1.00	COBALT		
38	CHROMIUM		
31	COPPER		
1.00	MOLYBDENUM		
2.5	NICKEL		
50	LEAD		
3.00	ANTIMONY		
4.00	SELENIUM		
100	TIN		
1.1	STRONTIUM		
5.00	TELLURIUM		
14	TITANIUM		
100	THALLIUM		
1.3	VANADIUM		
1.00	YTTRIUM		
54	ZINC		
NA	ZIRCONIUM		
0.040	MERCURY		
900	ALUMINUM		
4.7	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96 0002 SAMPLE NO. 98  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T08-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1115 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

3500U 13 AND/OR 4 ) METHYLPHENOL  
3500U 1,2,4-TRICHLOROBENZENE  
3500U 2,2'-CHLOROISOPROPYLETHYER  
3500U 2,3,4,6-TETRACHLOROPHENOL  
3500U 2,4,5-TRICHLOROPHENOL  
3500U 2,4,6-TRICHLOROPHENOL  
3500U 2,4-DICHLOROPHENOL  
3500U 2,4-DIMETHYLPHENOL  
7000U 2,4-DINITROPHENOL  
3500U 2,4-DINITROTOLUENE  
3500U 2,6-DINITROTOLUENE  
3500U 2-CHLORONAPHTHALENE  
3500U 2-CHLOROPHENOL  
7000U 2-METHYL-4,6-DINITROPHENOL  
3500U 2-METHYLNAPHTHALENE  
3500U 2-METHYLPHENOL  
3500U 2-NITROANILINE  
3500U 2-NITROPHENOL  
3500U 3,3'-DICHLOROBENZIDINE  
3500U 3-NITROANILINE  
3500U 4-BROMOPHENYL PHENYL ETHER  
3500U 4-CHLORO-3-METHYLPHENOL  
3500U 4-CHLOROANILINE  
3500U 4-CHLOROPHENYL PHENYL ETHER  
3500U 4-NITROANILINE  
7000U 4-NITROPHENOL  
3500U ACENAPHTHENE  
3500U ACENAPHTHYLENE  
3500U ANTHRACENE  
3500U BENZO (A) ANTHRACENE  
3500U BENZO (B AND/OR K) FLUORANTHENE

3500U BENZO (GHI) PERYLENE  
3500U BENZO-A-PYRENE  
3500U BENZYL BUTYL PHTHALATE  
3500U BIS (2-CHLOROETHOXY) METHANE  
3500U BIS (2-CHLOROETHYL) ETHER  
3500U BIS (2-ETHYLHEXYL) PHTHALATE  
3500U CARBAZOLE  
3500U CHRYSENE  
3500U DI-N-BUTYLPHTHALATE  
3500U DI-N-OCTYLPHTHALATE  
3500U DIBENZO (A,H) ANTHRACENE  
3500U DIBENZOFURAN  
3500U DIETHYL PHTHALATE  
3500U DIMETHYL PHTHALATE  
3500U FLUORANTHENE  
3500U FLUORENE  
3500U HEXACHLOROBENZENE (HCB)  
3500U HEXACHLOROBUTADIENE  
3500U HEXACHLOROCYCLOPENTADIENE (HCCP)  
3500U HEXACHLOROETHANE  
3500U INDENO (1,2,3-CD) PYRENE  
3500U ISOPHORONE  
3500U N-NITROSODI-N PROPYLAMINE  
3500U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
3500U NAPHTHALENE  
3500U NITROBENZENE  
7000U PENTACHLOROPHENOL  
3500U PHENANTHRENE  
3500U PHENOL  
3500U PYRENE  
18.9 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 98 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T08-001  
\*\*  
\*\*\*  
SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.  
11/16/95  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1115 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*^

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
47U	CHLOROMETHANE	47U	CIS-1,3-DICHLOROPROPENE
47U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
47U	BROMOMETHANE	47U	TOLUENE
47U	CHLOROETHANE	47U	TRANS-1,3-DICHLOROPROPENE
47U	TRICHLOROFLUOROMETHANE	47U	1,1,2-TRICHLOROETHANE
47U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	47U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
47U	ACETONE	47U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
47U	METHYLENE CHLORIDE	47U	DIBROMOCHLOROMETHANE
47U	TRANS-1,2-DICHLOROETHENE	47U	CHLOROBENZENE
47U	1,1-DICHLOROETHANE	47U	1,1,1,2-TETRACHLOROETHANE
47U	CIS-1,2-DICHLOROETHENE	47U	ETHYL BENZENE
47U	2,2-DICHLOROPROPANE	47U	(M- AND/OR P-) XYLENE
47U	METHYL ETHYL KETONE	47U	O-XYLENE
47U	BROMOCHLOROMETHANE	47U	STYRENE
47U	CHLOROFORM	47U	BROMOFORM
47U	1,1,1-TRICHLOROETHANE	47U	BROMOBENZENE
47U	1,1-DICHLOROPROPENE	47U	1,1,2,2-TETRACHLOROETHANE
47U	CARBON TETRACHLORIDE	47U	1,2,3-TRICHLOROPROPANE
47U	1,2-DICHLOROETHANE	47U	O-CHLOROTOLUENE
47U	BENZENE	47U	P-CHLOROTOLUENE
47U	TRICHLOROETHENE (TRICHLOROETHYLENE)	47U	1,3-DICHLOROBENZENE
47U	1,2-DICHLOROPROPANE	47U	1,4-DICHLOROBENZENE
47U	DIBROMOMETHANE	47U	1,2-DICHLOROBENZENE
47U	BROMODICHLOROMETHANE	18.9	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT  
\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 99 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T09-001  
\*\*\*  
MG/KG ANALYTICAL RESULTS  
1.00 SILVER  
3.00 ARSENIC  
NA BORON  
1.00 BARIUM  
0.50U BERYLLIUM  
0.50U CADMIUM  
1.00 COBALT  
1.00 CHROMIUM  
6.0 COPPER  
1.00 MOLYBDENUM  
2.0U NICKEL  
1.8 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
3.5U TIN  
1.0U STRONTIUM  
5.0U TELLURIUM  
2.7 TITANIUM  
10U THALLIUM  
1.0U VANADIUM  
1.0U YTTRIUM  
4.0 ZINC  
NA ZIRCONIUM  
0.04U MERCURY  
76 ALUMINUM  
1.0U MANGANESE

ANALYTICAL RESULTS  
MG/KG  
50U CALCIUM  
11 MAGNESIUM  
76 IRON  
100U SODIUM  
200U POTASSIUM  
20 PERCENT MOISTURE

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1155 STOP: 00/00/00

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 99  
SOURCE: NAS PENSACOLA  
STATION ID: SB T09-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1155 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

36000 (3- AND/OR 4 ) METHYLPHENOL  
36000 1,2,4-TRICHLOROBENZENE  
36000 2,2'-CHLOROISOPROPYLETHYER  
36000 2,3,4,6-TETRACHLOROPHENOL  
36000 2,4,5-TRICHLOROPHENOL  
36000 2,4,6-TRICHLOROPHENOL  
36000 2,4-DICHLOROPHENOL  
36000 2,4-DIMETHYLPHENOL  
72000 2,4-DINITROPHENOL  
36000 2,4-DINITROTOLUENE  
36000 2,6-DINITROTOLUENE  
36000 2-CHLORONAPHTHALENE  
36000 2-CHLOROPHENOL  
72000 2-METHYL-4,6-DINITROPHENOL  
36000 2-METHYLNAPHTHALENE  
36000 2-METHYLPHENOL  
36000 2-NITROANILINE  
36000 2-NITROPHENOL  
36000 3,3'-DICHLOROBENZIDINE  
36000 3-NITROANILINE  
36000 4-BROMOPHENYL PHENYL ETHER  
36000 4-CHLORO-3-METHYLPHENOL  
36000 4-CHLOROANILINE  
36000 4-CHLOROPHENYL PHENYL ETHER  
36000 4-NITROANILINE  
72000 4-NITROPHENOL  
36000 ACENAPHTHENE  
36000 ACENAPHTHYLENE  
36000 ANTHRACENE  
36000 BENZO(A)ANTHRACENE  
36000 BENZO(B AND/OR K)FLUORANTHENE

36000 BENZO(GHI)PERYLENE  
36000 BENZO-A-PYRENE  
36000 BENZYL BUTYL PHTHALATE  
36000 BIS(2-CHLOROETHOXY) METHANE  
36000 BIS(2-CHLOROETHYL) ETHER  
36000 BIS(2-ETHYLHEXYL) PHTHALATE  
36000 CARBAZOLE  
36000 CHRYSENE  
36000 DI-N-BUTYLPHTHALATE  
36000 DI-N-OCTYLPHTHALATE  
36000 DIBENZO(A,H)ANTHRACENE  
36000 DIBENZOFURAN  
36000 DIETHYL PHTHALATE  
36000 DIMETHYL PHTHALATE  
36000 FLUORANTHENE  
36000 FLUORENE  
36000 HEXACHLOROBENZENE (HCB)  
36000 HEXACHLOROBUTADIENE  
36000 HEXACHLOROCYCLOPENTADIENE (HCCP)  
36000 HEXACHLOROETHANE  
36000 INDENO (1,2,3 CD) PYRENE  
36000 ISOPHORONE  
36000 N-NITROSODI-N PROPYLAMINE  
36000 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
36000 NAPHTHALENE  
36000 NITROBENZENE  
72000 PENTACHLOROPHENOL  
36000 PHENANTHRENE  
36000 PHENOL  
36000 PYRENE  
21.8 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 99  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T09-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1155 STOP: 00/00/00

ANALYTICAL RESULTS	
UG/KG	UG/KG
53U CHLOROMETHANE	CIS-1,3-DICHLOROPROPENE
53U VINYL CHLORIDE	130U METHYL ISOBUTYL KETONE
53U BROMOMETHANE	53U TOLUENE
53U CHLOROETHANE	53U TRANS-1,3-DICHLOROPROPENE
53U TRICHLOROFLUOROMETHANE	53U 1,1,2-TRICHLOROETHANE
53U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	53U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
530U ACETONE	53U 1,3-DICHLOROPROPANE
130U CARBON DISULFIDE	130U METHYL BUTYL KETONE
53U METHYLENE CHLORIDE	53U DIBROMOCHLOROMETHANE
53U TRANS-1,2-DICHLOROETHENE	53U CHLOROBENZENE
53U 1,1-DICHLOROETHANE	53U 1,1,1,2-TETRACHLOROETHANE
53U CIS-1,2-DICHLOROETHENE	53U ETHYL BENZENE
53U 2,2-DICHLOROPROPANE	53U (M- AND/OR P-) XYLENE
530U METHYL ETHYL KETONE	53U O-XYLENE
53U BROMOCHLOROMETHANE	53U STYRENE
53U CHLOROFORM	53U BROMOFORM
53U 1,1,1-TRICHLOROETHANE	53U BROMOBENZENE
53U 1,1-DICHLOROPROPENE	53U 1,1,2,2-TETRACHLOROETHANE
53U CARBON TETRACHLORIDE	53U 1,2,3-TRICHLOROPROPANE
53U 1,2-DICHLOROETHANE	53U O-CHLOROTOLUENE
53U BENZENE	53U P-CHLOROTOLUENE
53U TRICHLOROETHENE (TRICHLOROETHYLENE)	53U 1,3-DICHLOROBENZENE
53U 1,2-DICHLOROPROPANE	53U 1,4-DICHLOROBENZENE
53U DIBROMOMETHANE	53U 1,2-DICHLOROBENZENE
53U BROMODICHLOROMETHANE	21.8 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

METALS DATA REPORT

PROJECT NO. 96-0002    SAMPLE NO. 101    SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SB-T11-001

PROG ELEM: SSF    COLLECTED BY: F SLOAN

CITY: PENSACOLA    ST: FL

COLLECTION START: 10/18/95 1025    STOP: 00/00/00

ANALYTICAL RESULTS									
MG/KG									
1.00	SILVER	150	CALCIUM						
3.00	ARSENIC	25	MAGNESIUM						
NA	BORON	250	IRON						
1.5	BARIUM	1000	SODIUM						
0.500	BERYLLIUM	2000	POTASSIUM						
0.500	CADMIUM	19	PERCENT MOISTURE						
1.00	COBALT								
1.00	CHROMIUM								
4.1	COPPER								
1.00	MOLYBDENUM								
2.00	NICKEL								
11	LEAD								
3.00	ANTIMONY								
4.00	SELENIUM								
4.00	TIN								
1.00	STRONTIUM								
5.00	TELLURIUM								
5.3	TITANIUM								
100	THALLIUM								
1.00	VANADIUM								
1.00	YTTRIUM								
7.9	ZINC								
NA	ZIRCONIUM								
0.050	MERCURY								
280	ALUMINUM								
3.8	MANGANESE								

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\* FOOTNOTES \*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*NAI-INTERFERENCES

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN





SAMPLE AND ANALYSIS ' GEMENT SYSTEM  
EPA REGION IV ES. THENS, GA.

1 3/95

## EXTRACTABLE ORGANICS DATA REPORT

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** PROJECT NO. 96 0002 SAMPLE NO. 101 SAMPLE TYPE: SOIL
**
** PROG ELEM: SSF COLLECTED BY: F SLOAN
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/18/95 1025 STOP: 00/00/00
** STATION ID: SR T11-001

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ANALYTICAL RESULTS	
UG/KG	UG/KG
(3 AND/OR 4 ) METHYLPHENOL	BENZO(GHI)PERYLENE
1,2,4 TRICHLOROBENZENE	BENZO-A PYRENE
2,2'-CHLOROISOPROPYLETHER	BENZYL BUTYL PHTHALATE
2,3,4,6 TETRACHLOROPHENOL	BIS(2-CHLOROETHOXY) METHANE
2,4,5 TRICHLOROPHENOL	BIS(2-CHLOROETHYL) ETHER
2,4,6-TRICHLOROPHENOL	BIS(2-ETHYLHEXYL) PHTHALATE
2,4-DICHLOROPHENOL	CARBAZOLE
2,4-DIMETHYLPHENOL	CHRYSENE
2,4-DINITROPHENOL	DI N BUTYLPHTHALATE
2,4-DINITROTOLUENE	DI N OCTYLPHTHALATE
2,6-DINITROTOLUENE	DIBENZO(A,H)ANTHRACENE
2-CHLORONAPHTHALENE	DIBENZOFURAN
2-CHLOROPHENOL	DIETHYL PHTHALATE
2-METHYL-4,6-DINITROPHENOL	DIMETHYL PHTHALATE
2-METHYLNAPHTHALENE	FLUORANTHENE
2-METHYLPHENOL	FLUORENE
2-NITROANILINE	HEXACHLOROBENZENE (HCB)
2-NITROPHENOL	HEXACHLOROBUTADIENE
3,3'-DICHLOROBENZIDINE	HEXACHLOROCYCLOPENTADIENE (HCCP)
3-NITROANILINE	HEXACHLOROETHANE
4-BROMOPHENYL PHENYL ETHER	INDENO (1,2,3-CD) PYRENE
4-CHLORO-3-METHYLPHENOL	ISOPHORONE
4-CHLOROANILINE	N-NITROSODI-N-PROPYLAMINE
4-CHLOROPHENYL PHENYL ETHER	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4-NITROANILINE	NAPHTHALENE
4-NITROPHENOL	NITROBENZENE
ACENAPHTHENE	PENTACHLOROPHENOL
ACENAPHTHYLENE	PHENANTHRENE
ANTHRACENE	PHENOL
BENZO(A)ANTHRACENE	PYRENE
BENZO(B AND/OR K) FLUORANTHENE	PERCENT MOISTURE
	11.7

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*FOOTNOTES\*\*  
 \*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*H-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 101 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T11-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/18/95 1025 STOP: 00/00/00

\*\*\* UG/KG ANALYTICAL RESULTS  
\*\*\* UG/KG ANALYTICAL RESULTS

58U	CHLOROMETHANE	58U	CIS-1,3-DICHLOROPROPENE
58U	VINYL CHLORIDE	150U	METHYL ISOBUTYL KETONE
58U	BROMOMETHANE	58U	TOLUENE
58U	CHLOROETHANE	58U	TRANS-1,3-DICHLOROPROPENE
58U	TRICHLOROFUOROMETHANE	58U	1,1,2-TRICHLOROETHANE
58U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	58U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
580U	ACETONE	58U	1,3-DICHLOROPROPANE
150U	CARBON DISULFIDE	150U	METHYL BUTYL KETONE
58U	METHYLENE CHLORIDE	58U	DIBROMOCHLOROMETHANE
58U	TRANS-1,2-DICHLOROETHENE	58U	CHLOROBENZENE
58U	1,1-DICHLOROETHANE	58U	1,1,1,2-TETRACHLOROETHANE
58U	CIS-1,2-DICHLOROETHENE	58U	ETHYL BENZENE
58U	2,2-DICHLOROPROPANE	58U	(M- AND/OR P-) XYLENE
580U	METHYL ETHYL KETONE	58U	O-XYLENE
58U	BROMOCHLOROMETHANE	58U	STYRENE
58U	CHLOROFORM	58U	BROMOFORM
58U	1,1,1-TRICHLOROETHANE	58U	BROMOBENZENE
58U	1,1-DICHLOROPROPENE	58U	1,1,2,2-TETRACHLOROETHANE
58U	CARBON TETRACHLORIDE	58U	1,2,3-TRICHLOROPROPANE
58U	1,2-DICHLOROETHANE	58U	O-CHLOROTOLUENE
58U	BENZENE	58U	P-CHLOROTOLUENE
58U	TRICHLOROETHENE (TRICHLOROETHYLENE)	58U	1,3-DICHLOROBENZENE
58U	1,2-DICHLOROPROPANE	58U	1,4-DICHLOROBENZENE
58U	DIBROMOMETHANE	58U	1,2-DICHLOROBENZENE
58U	BROMODICHLOROMETHANE	21.7	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.











SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 102 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T12-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1320 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
54U	CHLOROMETHANE	54U	CIS-1,3-DICHLOROPROPENE
54U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
54U	BROMOMETHANE	54U	TOLUENE
54U	CHLOROETHANE	54U	TRANS-1,3-DICHLOROPROPENE
54U	TRICHLOROFLUOROMETHANE	54U	1,1,2-TRICHLOROETHANE
54U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	54U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
540U	ACETONE	54U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
54U	METHYLENE CHLORIDE	54U	DIBROMOCHLOROMETHANE
54U	TRANS-1,2-DICHLOROETHENE	54U	CHLOROBENZENE
54U	1,1-DICHLOROETHANE	54U	1,1,1,2-TETRACHLOROETHANE
54U	CIS-1,2-DICHLOROETHENE	54U	ETHYL BENZENE
54U	2,2-DICHLOROPROPANE	54U	(M- AND/OR P-) XYLENE
540U	METHYL ETHYL KETONE	54U	O-XYLENE
54U	BROMOCHLOROMETHANE	54U	STYRENE
54U	CHLOROFORM	54U	BROMOFORM
54U	1,1,1-TRICHLOROETHANE	54U	BROMOBENZENE
54U	1,1-DICHLOROPROPENE	54U	1,1,2,2-TETRACHLOROETHANE
54U	CARBON TETRACHLORIDE	54U	1,2,3-TRICHLOROPROPANE
54U	1,2-DICHLOROETHANE	54U	O-CHLOROTOLUENE
54U	BENZENE	54U	P-CHLOROTOLUENE
54U	TRICHLOROETHENE (TRICHLOROETHYLENE)	54U	1,3-DICHLOROBENZENE
54U	1,2-DICHLOROPROPANE	54U	1,4-DICHLOROBENZENE
54U	DIBROMOMETHANE	54U	1,2-DICHLOROBENZENE
54U	BROMODICHLOROMETHANE	54U	PERCENT MOISTURE
		22.1	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 103 SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SB-T13-001

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

COLLECTION START: 0/18/95 1515 STOP: 00/00/00

ANALYTICAL RESULTS									
ANALYTICAL RESULTS									
MG/KG	MG/KG								
1.00	SILVER	1600	CALCIUM	79	MAGNESIUM	3700	IRON	1000	SODIUM
3.00	ARSENIC	2000	POTASSIUM	11	PERCENT MOISTURE				
NA	BORON								
5.3	BARIUM								
0.50U	BERYLLIUM								
0.50U	CADMIUM								
1.00U	COBALT								
2.8	CHROMIUM								
14	COPPER								
1.00U	MOLYBDENUM								
2.00U	NICKEL								
29	LEAD								
3.00U	ANTIMONY								
4.00U	SELENIUM								
6.50U	TIN								
4.2	STRONTIUM								
5.0U	TELLURIUM								
26	TITANIUM								
10U	THALLIUM								
12	VANADIUM								
1.00U	YTTRIUM								
15	ZINC								
NA	ZIRCONIUM								
0.05U	MERCURY								
440	ALUMINUM								
18	MANGANESE								

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



## EXTRACTABLE ORGANICS DATA REPORT.

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** EXTRACTABLE ORGANICS DATA REPORT **
** PROJECT NO. 96-0002 SAMPLE NO. 103 **
** SOURCE: NAS PENSACOLA CITY: PENSACOLA **
** STATION ID: SB-T13-001 COLLECTION START: 10/18/95 STOP: 00/00/00 **
** PROG ELEM: SSF COLLECTED BY: F SLOAN **

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UG/KG	ANALYTICAL RESULTS	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
3500U	(3- AND/OR 4-) METHYLPHENOL,	BENZO (GH) PERYLENE	3500U	
3500U	1,2,4-TRICHLOROBENZENE	BENZO A PYRENE	3500U	
3500U	2,2'-CHLOROISOPROPYLETHER	BENZYL BUTYL PHTHALATE	3500U	
3500U	2,3,4,6-TETRACHLOROPHENOL	BIS (2-CHLOROETHOXY) METHANE	3500U	
3500U	2,4,5-TRICHLOROPHENOL	BIS (2-CHLOROETHYL) ETHER	3500U	
3500U	2,4,6-TRICHLOROPHENOL	BIS (2-ETHYLHEXYL) PHTHALATE	3500U	
3500U	2,4-DICHLOROPHENOL	CARBAZOLE	3500U	
3500U	2,4-DIMETHYLPHENOL	CHRYSENE	3500U	
7100U	2,4-DINITROPHENOL	DI-N-BUTYLPHTHALATE	3500U	
3500U	2,4-DINITROTOLUENE	DI-N-OCTYLPHTHALATE	3500U	
3500U	2,6-DINITROTOLUENE	DIBENZO (A,H) ANTHRACENE	3500U	
3500U	2-CHLORONAPHTHALENE	DIBENZOFURAN	3500U	
3500U	2-CHLOROPHENOL	DIETHYL PHTHALATE	3500U	
7100U	2-METHYL-4,6-DINITROPHENOL	DIMETHYL PHTHALATE	3500U	
3500U	2-METHYLNAPHTHALENE	FLUORANTHENE	3500U	
3500U	2-METHYLPHENOL	FLUORENE	3500U	
3500U	2-NITROANILINE	HEXACHLOROBENZENE (HCB)	3500U	
3500U	2-NITROPHENOL	HEXACHLOROBUTADIENE	3500U	
3500U	3,3'-DICHLOROBENZIDINE	HEXACHLOROCYCLOPENTADIENE (HCCP)	3500U	
3500U	3-NITROANILINE	HEXACHLOROETHANE	3500U	
3500U	4-BROMOPHENYL PHENYL ETHER	INDENO (1,2,3-CD) PYRENE	3500U	
3500U	4-CHLORO-3-METHYLPHENOL	ISOPHORONE	3500U	
3500U	4-CHLOROANILINE	N-NITROSODI-N-PROPYLAMINE	3500U	
3500U	4-CHLOROPHENYL PHENYL ETHER	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE	3500U	
7100U	4-NITROANILINE	NAPHTHALENE	3500U	
3500U	4-NITROPHENOL	NITROBENZENE	3500U	
3500U	ACENAPHTHENE	PENTACHLOROPHENOL	7100U	
3500U	ACENAPHTHYLENE	PHENANTHRENE	3500U	
3500U	ANTHRACENE	PHENOL	3500U	
3500U	BENZO (A) ANTHRACENE	PYRENE	3500U	
3500U	BENZO (B AND/OR K) FLUORANTHENE	PERCENT MOISTURE	10.1	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 103 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T13-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/18/95 1515 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
43U	CHLOROMETHANE	43U	CIS-1,3-DICHLOROPROPENE
43U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
43U	BROMOMETHANE	43U	TOLUENE
43U	CHLOROETHANE	43U	TRANS-1,3-DICHLOROPROPENE
43U	TRICHLOROFLUOROMETHANE	43U	1,1,2-TRICHLOROETHANE
43U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	43U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
430U	ACETONE	43U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
43U	METHYLENE CHLORIDE	43U	DIBROMOCHLOROMETHANE
43U	TRANS-1,2-DICHLOROETHENE	43U	CHLOROBENZENE
43U	1,1-DICHLOROETHANE	43U	1,1,1,2-TETRACHLOROETHANE
43U	CIS-1,2-DICHLOROETHENE	43U	ETHYL BENZENE
43U	2,2-DICHLOROPROPANE	43U	(M- AND/OR P-) XYLENE
430U	METHYL ETHYL KETONE	43U	O-XYLENE
43U	BROMOCHLOROMETHANE	43U	STYRENE
43U	CHLOROFORM	43U	BROMOFORM
43U	1,1,1-TRICHLOROETHANE	43U	BROMOBENZENE
43U	1,1-DICHLOROPROPENE	43U	1,1,2,2-TETRACHLOROETHANE
43U	CARBON TETRACHLORIDE	43U	1,2,3-TRICHLOROPROPANE
43U	1,2-DICHLOROETHANE	43U	O-CHLOROTOLUENE
43U	BENZENE	43U	P-CHLOROTOLUENE
43U	TRICHLOROETHENE (TRICHLOROETHYLENE)	43U	1,3-DICHLOROBENZENE
43U	1,2-DICHLOROPROPANE	43U	1,4-DICHLOROBENZENE
43U	DIBROMOMETHANE	43U	1,2-DICHLOROBENZENE
43U	BROMODICHLOROMETHANE	10.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS GEMENT SYSTEM  
EPA-REGION IV ES. ATHENS, GA.

1 5/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 105 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T15-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1630 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
1.00 SILVER	160 CALCIUM
3.00 ARSENIC	76 MAGNESIUM
NA BORON	860 IRON
5.2 BARIUM	1000 SODIUM
0.500 BERYLLIUM	2000 POTASSIUM
0.500 CADMIUM	20 PERCENT MOISTURE
1.00 COBALT	
1.00 CHROMIUM	
58 COPPER	
1.00 MOLYBDENUM	
2.00 NICKEL	
37 LEAD	
3.00 ANTIMONY	
4.00 SELENIUM	
4.50 TIN	
1.1 STRONTIUM	
5.00 TELLURIUM	
8.2 TITANIUM	
100 THALLIUM	
1.00 VANADIUM	
1.00 YTTRIUM	
27 ZINC	
NA ZIRCONIUM	
0.04U MERCURY	
290 ALUMINUM	
5.6 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 105 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T15-001  
\*\*  
\*\*\*  
SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.  
11/16/95  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/18/95 1630 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*~

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
53U	CHLOROMETHANE	53U	CIS-1,3-DICHLOROPROPENE
53U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
53U	BROMOMETHANE	53U	TOLUENE
53U	CHLOROETHANE	53U	TRANS-1,3-DICHLOROPROPENE
53U	TRICHLOROFLUOROMETHANE	53U	1,1,2-TRICHLOROETHANE
53U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	53U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
530U	ACETONE	53U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
53U	METHYLENE CHLORIDE	53U	DIBROMOCHLOROMETHANE
53U	TRANS-1,2-DICHLOROETHENE	53U	CHLOROBENZENE
53U	1,1-DICHLOROETHANE	53U	1,1,1,2-TETRACHLOROETHANE
53U	CIS-1,2-DICHLOROETHENE	53U	ETHYL BENZENE
53U	2,2-DICHLOROPROPANE	53U	(M- AND/OR P-) XYLENE
530U	METHYL ETHYL KETONE	53U	O-XYLENE
53U	BROMOCHLOROMETHANE	53U	STYRENE
53U	CHLOROFORM	53U	BROMOFORM
53U	1,1,1-TRICHLOROETHANE	53U	BROMOBENZENE
53U	1,1-DICHLOROPROPENE	53U	1,1,2,2-TETRACHLOROETHANE
53U	CARBON TETRACHLORIDE	53U	1,2,3-TRICHLOROPROPANE
53U	1,2-DICHLOROETHANE	53U	O-CHLOROTOLUENE
53U	BENZENE	53U	P-CHLOROTOLUENE
53U	TRICHLOROETHENE (TRICHLOROETHYLENE)	53U	1,3-DICHLOROBENZENE
53U	1,2-DICHLOROPROPANE	53U	1,4-DICHLOROBENZENE
53U	DIBROMOMETHANE	53U	1,2-DICHLOROBENZENE
53U	BROMODICHLOROMETHANE	21.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



EXTRACTABLE ORGANICS DATA REPORT  
\*\*\* PROJECT NO. 96 0002 SAMPLE NO. 105 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB T15-001  
\*\* PROG ELEM: SSP COLLECTED BY: F SLOAN  
\*\* CITY: PENSACOLA ST: FL  
\*\* COLLECTION START: 10/18/95 1630 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
37000	(3 AND/OR 4-) METHYLPHENOL	37000	BENZO (GH) PERYLENE
37000	1,2,4-TRICHLOROBENZENE	37000	BENZO-A PYRENE
37000	2,2'-CHLOROISOPROPYLETHYER	37000	BENZYL BUTYL PHTHALATE
37000	2,3,4,6-TETRACHLOROPHENOL	37000	BIS (2-CHLOROETHOXY) METHANE
37000	2,4,5-TRICHLOROPHENOL	37000	BIS (2-CHLOROETHYL) ETHER
37000	2,4,6-TRICHLOROPHENOL	37000	BIS (2-ETHYLHEXYL) PHTHALATE
37000	2,4-DICHLOROPHENOL	37000	CARBAZOLE
37000	2,4-DIMETHYLPHENOL	37000	CHRYSENE
75000	2,4-DINITROPHENOL	37000	DI N BUTYL PHTHALATE
37000	2,4-DINITROTOLUENE	37000	DI-N OCTYL PHTHALATE
37000	2,6-DINITROTOLUENE	37000	DIBENZO (A, H) ANTHRACENE
37000	2-CHLORONAPHTHALENE	37000	DIBENZOFURAN
37000	2-CHLOROPHENOL	37000	DIETHYL PHTHALATE
75000	2-METHYL-4,6-DINITROPHENOL	37000	DIMETHYL PHTHALATE
37000	2-METHYLNAPHTHALENE	37000	FLUORANTHENE
37000	2-NITROANILINE	37000	FLUORENE
37000	2-NITROPHENOL	37000	HEXACHLOROBENZENE (HCB)
37000	3,3'-DICHLOROBENZIDINE	37000	HEXACHLOROBUTADIENE
37000	3-NITROANILINE	37000	HEXACHLOROCYCLOPENTADIENE (HCCP)
37000	4-BROMOPHENYL PHENYL ETHER	37000	HEXACHLOROETHANE
37000	4-CHLORO-3-METHYLPHENOL	37000	INDENO (1,2,3-CD) PYRENE
37000	4-CHLOROANILINE	37000	ISOPHORONE
37000	4-CHLOROPHENYL PHENYL ETHER	37000	N NITROSODI-N PROPYLAMINE
37000	4-NITROANILINE	37000	N NITROSODIPHENYLAMINE/DIPHENYLAMINE
75000	4-NITROPHENOL	37000	NAPHTHALENE
37000	ACENAPHTHENE	37000	NITROBENZENE
37000	ACENAPHTHYLENE	75000	PENTACHLOROPHENOL
37000	ANTHRACENE	37000	PHENANTHRENE
37000	BENZO (A) ANTHRACENE	37000	PHENOL
37000	BENZO (B AND/OR K) FLUORANTHENE	37000	PYRENE
		21.1	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT  
\*\*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 124 ANALYTICAL RESULTS  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T16-001  
\*\*\* \*\* \*\* \*\* \*\*  
\*\* MG/KG ANALYTICAL RESULTS  
1.00 SILVER  
3.00 ARSENIC  
NA BORON  
1.00 BARIUM  
0.50 BERYLLIUM  
0.50 CADMIUM  
1.00 COBALT  
1.00 CHROMIUM  
2.3 COPPER  
1.00 MOLYBDENUM  
2.00 NICKEL  
2.7 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
3.50 TIN  
1.00 STRONTIUM  
5.00 TELLURIUM  
1.3 TITANIUM  
100 THALLIUM  
1.00 VANADIUM  
1.00 YTTRIUM  
1.00 ZINC  
NA ZIRCONIUM  
0.05U MERCURY  
39 ALUMINUM  
3.1 MANGANESE

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

50U CALCIUM  
10U MAGNESIUM  
24 IRON  
100U SODIUM  
200U POTASSIUM  
20 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96 0002 SAMPLE NO. 124  
SOURCE: NAS PENSACOLA  
STATION ID: SR T16-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0855 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
34000	(3-AND/OR 4-) METHYLPHENOL	34000	BENZO (CHI) PERYLENE
34000	1,2,4 - TRICHLOROBENZENE	34000	BENZO - A PYRENE
34000	2,2' - CHLOROISOPROPYLETHET	34000	BENZYL BUTYL PHTHALATE
34000	2,3,4,6 TETRACHLOROPHENOL	34000	BIS (2-CHLOROETHOXY) METHANE
34000	2,4,5 - TRICHLOROPHENOL	34000	BIS (2-CHLOROETHYL) ETHER
34000	2,4,6 - TRICHLOROPHENOL	34000	BIS (2-ETHYLHEXYL) PHTHALATE
34000	2,4-DICHLOROPHENOL	34000	CARHAZOLE
34000	2,4-DIMETHYLPHENOL	34000	CHRYSENE
67000	2,4-DINITROPHENOL	34000	DI-N-BUTYLPHTHALATE
34000	2,4-DINITROTOLUENE	34000	DI-N-OCTYLPHTHALATE
34000	2,6-DINITROTOLUENE	34000	DIBENZO (A, H) ANTHRACENE
34000	2-CHLORONAPHTHALENE	34000	DIBENZOFURAN
34000	2-CHLOROPHENOL	34000	DIETHYL PHTHALATE
67000	2-METHYL-4,6-DINITROPHENOL	34000	DIMETHYL PHTHALATE
34000	2-METHYLNAPHTHALENE	34000	FLUORANTHENE
34000	2-METHYLPHENOL	34000	FLUORENE
34000	2-NITROANILINE	34000	HEXACHLOROBENZENE (HCB)
34000	2-NITROPHENOL	34000	HEXACHLOROBUTADIENE
34000	3,3'-DICHLOROBENZIDINE	34000	HEXACHLOROCYCLOPENTADIENE (HCCP)
34000	3-NITROANILINE	34000	HEXACHLOROETHANE
34000	4-BROMOPHENYL PHENYL ETHER	34000	INDENO (1,2,3-CD) PYRENE
34000	4-CHLORO-3-METHYLPHENOL	34000	ISOPHORONE
34000	4-CHLOROANILINE	34000	N NITROSODI-N-PROPYLAMINE
34000	4-CHLOROPHENYL PHENYL ETHER	34000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
34000	4-NITROANILINE	34000	NAPHTHALENE
67000	4-NITROPHENOL	34000	NITROBENZENE
34000	ACENAPHTHENE	67000	PENTACHLOROPHENOL
34000	ACENAPHTHYLENE	34000	PHENANTHRENE
34000	ANTHRACENE	34000	PHENOL
34000	BENZO (A) ANTHRACENE	34000	PYRENE
34000	BENZO (B AND/OR K) FLUORANTHENE	21.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 124 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: F SLOAN \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: SB-T16-001 COLLECTION START: 10/19/95 0855 STOP: 00/00/00 \*\*  
\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*

RESULTS UNITS PARAMETER  
0.25U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT  
\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 125 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T17-001  
\*\*\*

ANALYTICAL RESULTS										ANALYTICAL RESULTS									
MG/KG										MG/KG									
1.00	SILVER									260	CALCIUM								
3.00	ARSENIC									36	MAGNESIUM								
NA	BORON									680	IRON								
2.5	BARIUM									1000	SODIUM								
0.500	BERYLLIUM									2000	POTASSIUM								
0.500	CADMIUM									19	PERCENT MOISTURE								
1.00	COBALT																		
1.00	CHROMIUM																		
3.9	COPPER																		
1.00	MOLYBDENUM																		
2.00	NICKEL																		
71	LEAD																		
3.00	ANTIMONY																		
4.00	SELENIUM																		
5.50	TIN																		
1.00	STRONTIUM																		
5.00	TELLURIUM																		
9.6	TITANIUM																		
100	THALLIUM																		
1.6	VANADIUM																		
1.00	YTTRIUM																		
19	ZINC																		
NA	ZIRCONIUM																		
0.07	MERCURY																		
650	ALUMINUM																		
8.0	MANGANESE																		

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 125 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T17-001  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.  
11/16/95  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0950 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS  
UG/KG

57U	CHLOROMETHANE	57U	CIS-1,3-DICHLOROPROPENE
57U	VINYL CHLORIDE	140U	METHYL ISOBUTYL KETONE
57U	BROMOMETHANE	57U	TOLUENE
57U	CHLOROETHANE	57U	TRANS-1,3-DICHLOROPROPENE
57U	TRICHLOROFLUOROMETHANE	57U	1,1,2-TRICHLOROETHANE
57U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	57U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
57U	ACETONE	57U	1,3-DICHLOROPROPANE
140U	CARBON DISULFIDE	140U	METHYL BUTYL KETONE
57U	METHYLENE CHLORIDE	57U	DIBROMOCHLOROMETHANE
57U	TRANS-1,2-DICHLOROETHENE	57U	CHLOROBENZENE
57U	1,1-DICHLOROETHANE	57U	1,1,1,2-TETRACHLOROETHANE
57U	CIS-1,2-DICHLOROETHENE	57U	ETHYL BENZENE
57U	2,2-DICHLOROPROPANE	57U	(M- AND/OR P-) XYLENE
57U	METHYL ETHYL KETONE	57U	O-XYLENE
57U	BROMOCHLOROMETHANE	57U	STYRENE
57U	CHLOROFORM	57U	BROMOFORM
57U	1,1,1-TRICHLOROETHANE	57U	BROMOBENZENE
57U	1,1-DICHLOROPROPENE	57U	1,1,2,2-TETRACHLOROETHANE
57U	CARBON TETRACHLORIDE	57U	1,2,3-TRICHLOROPROPANE
57U	1,2-DICHLOROETHANE	57U	O-CHLOROTOLUENE
57U	BENZENE	57U	P-CHLOROTOLUENE
57U	TRICHLOROETHENE (TRICHLOROETHYLENE)	57U	1,3-DICHLOROBENZENE
57U	1,2-DICHLOROPROPANE	57U	1,4-DICHLOROBENZENE
57U	DIBROMOMETHANE	57U	1,2-DICHLOROBENZENE
57U	BROMODICHLOROMETHANE	57U	PERCENT MOISTURE
		20.1	

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96 0002 SAMPLE NO. 125 SAMPLE TYPE: SOIL

\*\*\* SOURCE: NAS PENSACOLA

\*\*\* STATION ID: SB-T17-001

\*\*\* PROG ELEM: SSP COLLECTED BY: F SLOAN

\*\*\* CITY: PENSACOLA ST: FL

\*\*\* COLLECTION START: 00/19/95 0950 STOP: 00/00/00

ANALYTICAL RESULTS										ANALYTICAL RESULTS									
UG/KG										UG/KG									
35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000
(3- AND/OR 4 ) METHYLPHENOL										BENZO (GH1) PERYLENE									
1,2,4-TRICHLOROBENZENE										BENZO-A-PYRENE									
2,2'-CHLOROISOPROPYLETHER										BENZYL BUTYL PHTHALATE									
2,3,4,6-TETRACHLOROPHENOL										BIS(2-CHLOROPHTHOXY) METHANE									
2,4,5-TRICHLOROPHENOL										BIS(2-CHLOROETHYL) ETHER									
2,4,6-TRICHLOROPHENOL										BIS(2-ETHYLHEXYL) PHTHALATE									
2,4-DICHLOROPHENOL										CARBAZOLE									
2,4-DIMETHYLPHENOL										CHRYSENE									
2,4-DINITROPHENOL										DI-N-BUTYLPHTHALATE									
2,4-DINITROTOLUENE										DI-N OCTYLPHTHALATE									
2,6-DINITROTOLUENE										DIBENZO(A,H)ANTHRACENE									
2-CHLORONAPHTHALENE										DIBENZOFURAN									
2-CHLOROPHENOL										DIETHYL PHTHALATE									
2-METHYL 4,6-DINITROPHENOL										DIMETHYL PHTHALATE									
2-METHYLNAPHTHALENE										FLUORANTHENE									
2-METHYLPHENOL										FLUORENE									
2-NITROPHENOL										HEXACHLOROBENZENE (HCB)									
3,3'-DICHLOROBENZIDINE										HEXACHLOROBUTADIENE									
3-NITROANILINE										HEXACHLOROCYCLOPENTADIENE (HCCP)									
4-BROMOPHENYL PHENYL ETHER										INDENO (1,2,3-CD) PYRENE									
4-CHLORO-3-METHYLPHENOL										ISOPHORONE									
4-CHLOROANILINE										N-NITROSODI-N-PROPYLAMINE									
4-CHLOROPHENYL PHENYL ETHER										N-NITROSODIPHENYLAMINE/DIPHENYLAMINE									
4-NITROANILINE										NAPHTHALENE									
4-NITROPHENOL										NITROBENZENE									
ACENAPHTHENE										PENTACHLOROPHENOL									
ACENAPHTHYLENE										PHENANTHRENE									
ANTHRACENE										PHENOL									
BENZO(A)ANTHRACENE										PYRENE									
BENZO(B AND/OR K)FLUORANTHENE										PERCENT MOISTURE									
35000										20.1									

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*NA-NOT ANALYZED

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*A-AVERAGE VALUE

\*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*K-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS  
EPA-REGION IV ES

AGEMENT SYSTEM  
ATHENS, GA.

15/95

METALS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 126 SAMPLE TYPE: SOIL

\*\*\* SOURCE: NAS PENSACOLA

\*\*\* STATION ID: SB-T18-001

\*\*\* PROG ELEM: SSF COLLECTED BY: F SLOAN

\*\*\* CITY: PENSACOLA ST: FL

\*\*\* COLLECTION START: 10/19/95 0930 STOP: 00/00/00

\*\*\* ANALYTICAL RESULTS

MG/KG ANALYTICAL RESULTS

1.00 SILVER 1800 CALCIUM

3.4 ARSENIC 1200 MAGNESIUM

NA BORON 6800 IRON

110 BARIUM 170 SODIUM

0.500 BERYLLIUM 440 POTASSIUM

0.500 CADMIUM 19 PERCENT MOISTURE

2.1 COBALT

10 CHROMIUM

100 COPPER

1.00 MOLYBDENUM

12 NICKEL

350 LEAD

3.00 ANTIMONY

4.00 SELENIUM

130 TIN

16 STRONTIUM

5.00 TELLURIUM

120 TITANIUM

100 THALLIUM

5.2 VANADIUM

1.8 YTTRIUM

96 ZINC

NA ZIRCONIUM

1.0 MERCURY

1700 ALUMINUM

63 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS  
EPA REGION IV E.  
ATHENS, GA.

08/95

EXTRACTABLE ORGANICS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 126  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T18-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0930 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
42000	(3-AND/OR 4-) METHYLPHENOL	42000	BENZO (GH1) PERYLENE
42000	1,2,4-TRICHLOROBENZENE	42000	BENZO-A-PYRENE
42000	2,2'-CHLOROISOPROPYLETHER	42000	BENZYL BUTYL PHTHALATE
42000	2,3,4,6-TETRACHLOROPHENOL	42000	BIS(2-CHLORCETHOXY) METHANE
42000	2,4,5-TRICHLOROPHENOL	42000	BIS(2-CHLORCETHYL) ETHER
42000	2,4,6-TRICHLOROPHENOL	42000	BIS(2-ETHYLHEXYL) PHTHALATE
42000	2,4-DICHLOROPHENOL	42000	CARBAZOLE
42000	2,4-DIMETHYLPHENOL	42000	CHRYSENE
83000	2,4-DINITROPHENOL	42000	DI-N-BUTYLPHTHALATE
42000	2,4-DINITROTOLUENE	42000	DI-N-OCTYLPHTHALATE
42000	2,6-DINITROTOLUENE	42000	DIBENZO (A,H) ANTHRACENE
42000	2-CHLORONAPHTHALENE	42000	DIBENZOFURAN
42000	2-CHLOROPHENOL	42000	DIETHYL PHTHALATE
83000	2 METHYL-4,6-DINITROPHENOL	42000	DIMETHYL PHTHALATE
42000	2-METHYLNAPHTHALENE	42000	FLUORANTHENE
42000	2-METHYLPHENOL	42000	FLUORENE
42000	2-NITROANILINE	42000	HEXACHLOROBENZENE (HCB)
42000	2-NITROPHENOL	42000	HEXACHLOROBUTADIENE
42000	3,3'-DICHLOROBENZIDINE	42000	HEXACHLOROCYCLOPENTADIENE (HCCP)
42000	3-NITROANILINE	42000	HEXACHLOROETHANE
42000	4-BROMOPHENYL PHENYL ETHER	42000	INDENO (1,2,3-CD) PYRENE
42000	4-CHLORO-3-METHYLPHENOL	42000	ISOPHORONE
42000	4-CHLOROANILINE	42000	N-NITROSODI-N PROPYLAMINE
42000	4-CHLOROPHENYL PHENYL ETHER	42000	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
42000	4 NITROANILINE	42000	NAPHTHALENE
83000	4 NITROPHENOL	42000	NITROBENZENE
42000	ACENAPHTHENE	83000	PENTACHLOROPHENOL
42000	ACENAPHTHYLENE	42000	PHENANTHRENE
42000	ANTHRACENE	42000	PHENOL
42000	BENZO (A) ANTHRACENE	42000	PYRENE
42000	BENZO (B AND/OR K) FLUORANTHENE	20.0	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 126 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T18-001  
\*\*  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 0930 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*

RESULTS UNITS PARAMETER  
0.250 MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

METALS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 127 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T19-001  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1120 STOP: 00/00/00  
ANALYTICAL RESULTS  
MG/KG ANALYTICAL RESULTS  
1.00 SILVER 5400 CALCIUM  
1.9 ARSENIC 560 MAGNESIUM  
NA BORON 1400 IRON  
33 BARIUM 1000 SODIUM  
0.50 BERYLLIUM 2000 POTASSIUM  
0.50 CADMIUM 18 PERCENT MOISTURE  
1.00 COBALT  
1.0 CHROMIUM  
32 COPPER  
1.00 MOLYBDENUM  
2.00 NICKEL  
250 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
4.50 TIN  
13 STRONTIUM  
5.00 TELLURIUM  
16 TITANIUM  
100 THALLIUM  
2.0 VANADIUM  
1.00 YTTRIUM  
53 ZINC  
NA ZIRCONIUM  
0.05 MERCURY  
650 ALUMINUM  
20 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



## 11/16/95

## 11/16/95

11/16/95

11/16/95

11/16/95

\*\*\*REMARKS\*\*\*

FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				

## EXTRACTABLE ORGANICS DATA REPORT

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** ** * EXTRACTABLE ORGANICS DATA REPORT * ** *
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* PROJECT NO.	* 96-0002
* SOURCE:	* NAS PENSACOLA
* STATION ID:	* SB-T19-001

SAMPLE NO.	127	SAMPLE TYPE:	SOIL,
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PROG ELEM:	SSF	COLLECTED BY:	F SLOAN	
CITY:	PENSACOLA	ST:	FL	
COLLECTION START:	00/19/95	1120	STOP:	00/00/00

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN	*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN			
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				





SAMPLE AND ANALYSIS ' GEMENT SYSTEM  
EPA-REGION IV ES THENS, GA.

1 5/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 128 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB T20-001

PROG ELEM: SSF COLLECTED BY: F SLOAN

CITY: PENSACOLA ST: FL

COLLECTION START: 10/19/95 1335 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

50U CALCIUM  
10U MAGNESIUM  
32 IRON  
100U SODIUM  
200U POTASSIUM  
16 PERCENT MOISTURE

MG/KG

1.0U SILVER  
3.0U ARSENIC  
NA BORON  
1.0U BARIUM  
0.50U BERYLLIUM  
0.50U CADMIUM  
1.0U COBALT  
1.0U CHROMIUM  
1.0U COPPER  
1.0U MOLYBDENUM  
2.0U NICKEL  
1.0 LEAD  
3.0U ANTIMONY  
4.0U SELENIUM  
4.0U TIN  
1.0U STRONTIUM  
5.0U TELLURIUM  
1.0 TITANIUM  
10U THALLIUM  
1.0U VANADIUM  
1.0U YTTRIUM  
1.0U ZINC  
NA ZIRCONIUM  
0.17 MERCURY  
30 ALUMINUM  
1.0U MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

11/16/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 128 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T20-001  
\*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\*  
PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1335 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
51U	CHLOROMETHANE	51U	CIS-1,3-DICHLOROPROPENE
51U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
51U	BROMOMETHANE	51U	TOLUENE
51U	CHLOROETHANE	51U	TRANS-1,3-DICHLOROPROPENE
51U	TRICHLOROFLUOROMETHANE	51U	1,1,2-TRICHLOROETHANE
51U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	51U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
51U	ACETONE	51U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
51U	METHYLENE CHLORIDE	51U	DIBROMOCHLOROMETHANE
51U	TRANS-1,2-DICHLOROETHENE	51U	CHLOROBENZENE
51U	1,1-DICHLOROETHANE	51U	1,1,1,2-TETRACHLOROETHANE
51U	CIS-1,2-DICHLOROETHENE	51U	ETHYL BENZENE
51U	2,2-DICHLOROPROPANE	51U	(M- AND/OR P-) XYLENE
510U	METHYL ETHYL KETONE	51U	O-XYLENE
51U	BROMOCHLOROMETHANE	51U	STYRENE
51U	CHLOROFORM	51U	BROMOFORM
51U	1,1,1-TRICHLOROETHANE	51U	BROMOBENZENE
51U	1,1-DICHLOROPROPENE	51U	1,1,2,2-TETRACHLOROETHANE
51U	CARBON TETRACHLORIDE	51U	1,2,3-TRICHLOROPROPANE
51U	1,2-DICHLOROETHANE	51U	O-CHLOROTOLUENE
51U	BENZENE	51U	P-CHLOROTOLUENE
51U	TRICHLOROETHENE (TRICHLOROETHYLENE)	51U	1,3-DICHLOROBENZENE
51U	1,2-DICHLOROPROPANE	51U	1,4-DICHLOROBENZENE
51U	DIBROMOMETHANE	51U	1,2-DICHLOROBENZENE
51U	BROMODICHLOROMETHANE	51U	PERCENT MOISTURE
		10.0	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.









METALS DATA REPORT  
\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 129 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T22-001

PROG ELEM: SSF COLLECTED BY: F SLOAN  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/19/95 1520 STOP: 00/00/00

ANALYTICAL RESULTS

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
1.0U SILVER		240 CALCIUM	
3.0U ARSENIC		28 MAGNESIUM	
NA BORON		350 IRON	
1.7 BARIUM		100U SODIUM	
0.50U BERYLLIUM		200U POTASSIUM	
0.50U CADMIUM		19 PERCENT MOISTURE	
1.0U COBALT			
1.0U CHROMIUM			
36 COPPER			
1.0U MOLYBDENUM			
2.0U NICKEL			
41 LEAD			
3.0U ANTIMONY			
4.0U SELENIUM			
7.5U TIN			
1.0U STRONTIUM			
5.0U TELLURIUM			
3.4 TITANIUM			
10U THALLIUM			
1.0U VANADIUM			
1.0U YTTRIUM			
42 ZINC			
NA ZIRCONIUM			
0.05U MERCURY			
120 ALUMINUM			
8.0 MANGANESE			

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.









SAMPLE AND ANALYSIS N  
EPA-REGION IV ESI  
FHEMS, GA.

METALS DATA REPORT

\*\*\*

PROJECT NO. 96-0002

SOURCE: NAS PENSACOLA

STATION ID: SB-T23-001

SAMPLE NO. 154

SAMPLE TYPE: SOIL

PROG ELEM: SSF

CITY: PENSACOLA

COLLECTION START: 10/20/95

COLLECTED BY: J VAIL

ST: FL

STOP: 00/00/00

\*\*\*

[illegible]

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*NAI-INTERFERENCES

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*A-VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



PURGEABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM

EPA REGION IV ESD, ATHENS, GA.

12/04/95

PROJECT NO. 96-0002 SAMPLE NO. 154 SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SB-T23-001

PROG ELEM: SSF COLLECTED BY: J VAIL

CITY: PENSACOLA ST: FL

COLLECTION START: 10/20/95 0905 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

47U	CHLOROMETHANE	47U	CIS-1,3-DICHLOROPROPENE
47U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
47U	BROMOMETHANE	47U	TOLUENE
47U	CHLOROETHANE	47U	TRANS-1,3-DICHLOROPROPENE
47U	TRICHLOROFLUOROMETHANE	47U	1,1,2-TRICHLOROETHANE
47U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	47U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
470U	ACETONE	47U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
47U	METHYLENE CHLORIDE	47U	DIBROMOCHLOROMETHANE
47U	TRANS-1,2-DICHLOROETHENE	47U	CHLOROBENZENE
47U	1,1-DICHLOROETHANE	47U	1,1,1,2-TETRACHLOROETHANE
47U	CIS-1,2-DICHLOROETHENE	47U	ETHYL BENZENE
47U	2,2-DICHLOROPROPANE	47U	(M- AND/OR P-) XYLENE
470U	METHYL ETHYL KETONE	47U	O-XYLENE
47U	BROMOCHLOROMETHANE	47U	STYRENE
47U	CHLOROFORM	47U	BROMOFORM
47U	1,1,1-TRICHLOROETHANE	47U	BROMOBENZENE
47U	1,1-DICHLOROPROPENE	47U	1,1,2,2-TETRACHLOROETHANE
47U	CARBON TETRACHLORIDE	47U	1,2,3-TRICHLOROPROPANE
47U	1,2-DICHLOROETHANE	47U	O-CHLOROTOLUENE
47U	BENZENE	47U	P-CHLOROTOLUENE
47U	TRICHLOROETHENE (TRICHLOROETHYLENE)	47U	1,3-DICHLOROBENZENE
47U	1,2-DICHLOROPROPANE	47U	1,4-DICHLOROBENZENE
47U	DIBROMOMETHANE	47U	1,2-DICHLOROBENZENE
47U	BROMODICHLOROMETHANE	3.4	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

EXTRACTABLE ORGANICS DATA REPORT

\*\*\*

PROJECT NO. 96-0002

STATION ID: SB-T23-001

SOURCE: NAS PENSACOLA

154

SAMPLE TYPE: SOIL

EP A-REGION IV ES

SAMPLE AND ANALYSIS

ATHENS, GA.

AGEMENT SYSTEM

7/95

\*\*\*

PROG ELEM: SSF

COLLECTION START: 10/20/95

STOP: 00/00/00

CITY: PENSACOLA

ST: FL

COLLECTED BY: J VAIL

\*\*\*

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

3200U	(3-AND/OR 4-)METHYLPHENOL	3200U	BENZO (GHI) PERYLENE
3200U	1,2,4-TRICHLOROBENZENE	3200U	BENZO-A-PYRENE
3200U	2,2'-CHLOROISOPROPYLETHER	3200U	BENZYL BUTYL PHTHALATE
3200U	2,3,4,6-TETRACHLOROPHENOL	3200U	BIS (2-CHLOROETHOXY) METHANE
3200U	2,4,5-TRICHLOROPHENOL	3200U	BIS (2-CHLOROETHYL) ETHER
3200U	2,4,6-TRICHLOROPHENOL	3200U	BIS (2-ETHYLHEXYL) PHTHALATE
3200U	2,4-DICHLOROPHENOL	3200U	CARBAZOLE
3200U	2,4-DIMETHYLPHENOL	3200U	CHRYSENE
6500U	2,4-DINITROPHENOL	3200U	DI-N-BUTYLPHTHALATE
3200U	2,4-DINITROTOLUENE	3200U	DI-N-OCTYLPHTHALATE
3200U	2,6-DINITROTOLUENE	3200U	DIBENZO (A, H) ANTHRACENE
3200U	2-CHLORONAPHTHALENE	3200U	DIBENZOFURAN
3200U	2-CHLOROPHENOL	3200U	DIETHYL PHTHALATE
6500U	2-METHYL-4,6-DINITROPHENOL	3200U	DIMETHYL PHTHALATE
3200U	2-METHYLNAPHTHALENE	3200U	FLUORANTHENE
3200U	2-METHYLPHENOL	3200U	FLUORENE
3200U	2-NITROANILINE	3200U	HEXACHLOROBENZENE (HCB)
3200U	2-NITROPHENOL	3200U	HEXACHLOROBUTADIENE
3200U	3,3'-DICHLOROBENZIDINE	3200U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3200U	3-NITROANILINE	3200U	HEXACHLOROETHANE
3200U	4-BROMOPHENYL PHENYL ETHER	3200U	INDENO (1,2,3 CD) PYRENE
3200U	4-CHLORO-3-METHYLPHENOL	3200U	ISOPHORONE
3200U	4-CHLOROANILINE	3200U	N-NITROSODI-N PROPYLAMINE
3200U	4-CHLOROPHENYL PHENYL ETHER	3200U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3200U	4-NITROANILINE	3200U	NAPHTHALENE
6500U	4-NITROPHENOL	3200U	NITROBENZENE
3200U	ACENAPHTHENE	6500U	PENTACHLOROPHENOL
3200U	ACENAPHTHYLENE	3200U	PHENANTHRENE
3200U	ANTHRACENE	3200U	PHENOL
3200U	BENZO (A) ANTHRACENE	3200U	PYRENE
3200U	BENZO (B AND/OR K) FLUORANTHENE	3.4	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 154 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T23-001  
\*\*  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 0905 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\* \* \* \* \* \*

RESULTS UNITS PARAMETER  
0.21U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 155 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T25-001

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1000 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	MG/KG
1.00 SILVER	64 CALCIUM
3.00 ARSENIC	16 MAGNESIUM
1.00 BORON	85 IRON
0.500 BARIUM	100U SODIUM
0.500 BERYLLIUM	200U POTASSIUM
1.00 CADMIUM	3 PERCENT MOISTURE
1.00 COBALT	
1.00 CHROMIUM	
1.1 COPPER	
1.00 MOLYBDENUM	
2.00 NICKEL	
4.00 LEAD	
3.00 ANTIMONY	
4.00 SELENIUM	
3.00 TIN	
1.00 STRONTIUM	
5.00 TELLURIUM	
2.9 TITANIUM	
100 THALLIUM	
1.00 VANADIUM	
1.00 YTTRIUM	
2.9 ZINC	
NA ZIRCONIUM	
0.05U MERCURY	
130 ALUMINUM	
1.9 MANGANESE	

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT  
\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 155 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T25-001  
\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* CITY: PENSACOLA ST: FL  
\*\* COLLECTION START: 10/20/95 1000 STOP: 00/00/00

\*\*\* UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

43U	CHLOROMETHANE	43U	CIS-1,3-DICHLOROPROPENE
43U	VINYL CHLORIDE	110U	METHYL ISOBUTYL KETONE
43U	BROMOMETHANE	43U	TOLUENE
43U	CHLOROETHANE	43U	TRANS-1,3-DICHLOROPROPENE
43U	TRICHLOROFLUOROMETHANE	43U	1,1,2-TRICHLOROETHANE
43U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	43U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
430U	ACETONE	43U	1,3-DICHLOROPROPANE
110U	CARBON DISULFIDE	110U	METHYL BUTYL KETONE
43U	METHYLENE CHLORIDE	43U	DIBROMOCHLOROMETHANE
43U	TRANS-1,2-DICHLOROETHENE	43U	CHLOROBENZENE
43U	1,1-DICHLOROETHANE	43U	1,1,1,2-TETRACHLOROETHANE
43U	CIS-1,2-DICHLOROETHENE	43U	ETHYL BENZENE
43U	2,2-DICHLOROPROPANE	43U	(M- AND/OR P-) XYLENE
430U	METHYL ETHYL KETONE	43U	O-XYLENE
43U	BROMOCHLOROMETHANE	43U	STYRENE
43U	CHLOROFORM	43U	BROMOFORM
43U	1,1,1-TRICHLOROETHANE	43U	BROMOBENZENE
43U	1,1-DICHLOROPROPENE	43U	1,1,2,2-TETRACHLOROETHANE
43U	CARBON TETRACHLORIDE	43U	1,2,3-TRICHLOROPROPANE
43U	1,2-DICHLOROETHANE	43U	O-CHLOROTOLUENE
43U	BENZENE	43U	P-CHLOROTOLUENE
43U	TRICHLOROETHENE (TRICHLOROETHYLENE)	43U	1,3-DICHLOROBENZENE
43U	1,2-DICHLOROPROPANE	43U	1,4-DICHLOROBENZENE
43U	DIBROMOMETHANE	43U	1,2-DICHLOROBENZENE
43U	BROMODICHLOROMETHANE	2.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



EXTRACTABLE ORGANICS DATA REPORT  
\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 155 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T25-001  
\*\*\*

UG/KG ANALYTICAL RESULTS

2800U	(3-AND/OR 4-) METHYLPHENOL	2800U	BENZO (GHI) PERYLENE
2800U	1,2,4-TRICHLOROBENZENE	2800U	BENZO-A-PYRENE
2800U	2,2'-CHLOROISOPROPYLETHET	2800U	BENZYL BUTYL PHTHALATE
2800U	2,3,4,6-TETRACHLOROPHENOL	2800U	BIS(2-CHLOROETHOXY) METHANE
2800U	2,4,5-TRICHLOROPHENOL	2800U	BIS(2-CHLOROFHYL) ETHER
2800U	2,4,6-TRICHLOROPHENOL	2800U	BIS(2-ETHYLHEXYL) PHTHALATE
2800U	2,4-DICHLOROPHENOL	2800U	CARBAZOLE
2800U	2,4-DIMETHYLPHENOL	2800U	CHRYSENE
5600U	2,4-DINITROPHENOL	2800U	DI-N-BUTYLPHTHALATE
2800U	2,4-DINITROTOLUENE	2800U	DI-N-OCTYLPHTHALATE
2800U	2,6-DINITROTOLUENE	2800U	DIBENZO (A,H) ANTHRACENE
2800U	2-CHLORONAPHTHALENE	2800U	DIBENZOFURAN
2800U	2-CHLOROPHENOL	2800U	DIETHYL PHTHALATE
5600U	2-METHYL-4,6-DINITROPHENOL	2800U	DIMETHYL PHTHALATE
2800U	2-METHYLNAPHTHALENE	2800U	FLUORANTHENE
2800U	2-METHYLPHENOL	2800U	FLUORENE
2800U	2-NITROANILINE	2800U	HEXACHLOROBENZENE (HCB)
2800U	2-NITROPHENOL	2800U	HEXACHLOROBUTADIENE
2800U	3,3'-DICHLOROBENZIDINE	2800U	HEXACHLOROCYCLOPENTADIENE (HCCP)
2800U	3-NITROANILINE	2800U	HEXACHLOROETHANE
2800U	4-BROMOPHENYL PHENYL ETHER	2800U	INDENO (1,2,3-CD) PYRENE
2800U	4-CHLORO-3-METHYLPHENOL	2800U	ISOPHORONE
2800U	4-CHLOROANILINE	2800U	N-NITROSODI-N PROPYLAMINE
2800U	4-CHLOROPHENYL PHENYL ETHER	2800U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
2800U	4-NITROANILINE	2800U	NAPHTHALENE
5600U	4-NITROPHENOL	2800U	NITROBENZENE
2800U	ACENAPHTHENE	5600U	PENTACHLOROPHENOL
2800U	ACENAPHTHYLENE	2800U	PHENANTHRENE
2800U	ANTHRACENE	2800U	PHENOL
2800U	BENZO (A) ANTHRACENE	2800U	PYRENE
2800U	BENZO (B AND/OR K) FLUORANTHENE	2.8	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



## 12/18/95

PROJECT NO.	96-0002	SAMPLE NO.	155	SAMPLE TYPE:	SOIL	PROG ELEM:	SSF	COLLECTED BY:	J VAIL	
SOURCE:	NAS	PENSACOLA				CITY:	PENSACOLA		ST: FL	
STATION ID:	SB-T25-001					COLLECTION START:	10/20/95	1000	STOP:	00/00/00

RESULTS	UNITS	PARAMETER
0.21U	MG/KG	CYANIDE

\*\*\*FOOTNOTES\*\*\*

*A-AVERAGE VALUE	*NA-NOT ANALYZED	*NAI-INTERFERENCES	*J-ESTIMATED VALUE	*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN				
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.				



PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 156 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T26-001  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.  
12/04/95  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1440 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*~

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
49U	CHLOROMETHANE	49U	CIS-1,3-DICHLOROPROPENE
49U	VINYL CHLORIDE	120U	METHYL ISOBUTYL KETONE
49U	BROMOMETHANE	49U	TOLUENE
49U	CHLOROETHANE	49U	TRANS-1,3-DICHLOROPROPENE
49U	TRICHLOROFLUOROMETHANE	49U	1,1,2-TRICHLOROETHANE
49U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	49U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
49U	ACETONE	49U	1,3-DICHLOROPROPANE
120U	CARBON DISULFIDE	120U	METHYL BUTYL KETONE
49U	METHYLENE CHLORIDE	49U	DIBROMOCHLOROMETHANE
49U	TRANS-1,2-DICHLOROETHENE	49U	CHLOROBENZENE
49U	1,1-DICHLOROETHANE	49U	1,1,1,2-TETRACHLOROETHANE
49U	CIS-1,2-DICHLOROETHENE	49U	ETHYL BENZENE
49U	2,2-DICHLOROPROPANE	49U	(M- AND/OR P-) XYLENE
49U	METHYL ETHYL KETONE	49U	O-XYLENE
49U	BROMOCHLOROMETHANE	49U	STYRENE
49U	CHLOROFORM	49U	BROMOFORM
49U	1,1,1-TRICHLOROETHANE	49U	BROMOBENZENE
49U	1,1-DICHLOROPROPENE	49U	1,1,2,2-TETRACHLOROETHANE
49U	CARBON TETRACHLORIDE	49U	1,2,3-TRICHLOROPROPANE
49U	1,2-DICHLOROETHANE	49U	O-CHLOROTOLUENE
49U	BENZENE	49U	P-CHLOROTOLUENE
49U	TRICHLOROETHENE(TRICHLOROETHYLENE)	49U	1,3-DICHLOROBENZENE
49U	1,2-DICHLOROPROPANE	49U	1,4-DICHLOROBENZENE
49U	DIBROMOMETHANE	49U	1,2-DICHLOROBENZENE
49U	BROMODICHLOROMETHANE	15.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



EXTRACTABLE ORGANICS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 156  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T26-001  
CITY: PENSACOLA  
COLLECTION START: 10/20/95 1440 STOP: 00/00/00  
PROG ELEM: SSF COLLECTED BY: J VAIL  
ST: FL

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
3200U	(3-AND/OR 4-) METHYLPHENOL	3200U	BENZO (GHI) PERYLENE
3200U	1,2,4-TRICHLOROBENZENE	3200U	BENZO-A-PYRENE
3200U	2,2'-CHLOROISOPROPYLETHER	3200U	BENZYL BUTYL PHTHALATE
3200U	2,3,4,6-TETRACHLOROPHENOL	3200U	BIS (2-CHLOROETHOXY) METHANE
3200U	2,4,5-TRICHLOROPHENOL	3200U	BIS (2-CHLOROETHYL) ETHER
3200U	2,4,6-TRICHLOROPHENOL	3200U	BIS (2-ETHYLHEXYL) PHTHALATE
3200U	2,4-DICHLOROPHENOL	3200U	CARBAZOLE
3200U	2,4-DIMETHYLPHENOL	3200U	CHRYSENE
6400U	2,4-DINITROPHENOL	3200U	DI-N-BUTYLPHTHALATE
3200U	2,4-DINITROTOLUENE	3200U	DI-N-OCTYLPHTHALATE
3200U	2,6-DINITROTOLUENE	3200U	DIBENZO (A,H) ANTHRACENE
3200U	2-CHLORONAPHTHALENE	3200U	DIBENZOFURAN
3200U	2-CHLOROPHENOL	3200U	DIETHYL PHTHALATE
6400U	2-METHYL-4,6-DINITROPHENOL	3200U	DIMETHYL PHTHALATE
3200U	2-METHYLNAPHTHALENE	3200U	FLUORANTHENE
3200U	2-METHYLPHENOL	3200U	FLUORENE
3200U	2-NITROANILINE	3200U	HEXACHLOROBENZENE (HCB)
3200U	2-NITROPHENOL	3200U	HEXACHLOROBUTADIENE
3200U	3,3'-DICHLOROBENZIDINE	3200U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3200U	3-NITROANILINE	3200U	HEXACHLOROETHANE
3200U	4-BROMOPHENYL PHENYL ETHER	3200U	INDENO (1,2,3-CD) PYRENE
3200U	4-CHLORO-3-METHYLPHENOL	3200U	ISOPHORONE
3200U	4-CHLOROANILINE	3200U	N-NITROSODI-N PROPYLAMINE
3200U	4-CHLOROPHENYL PHENYL ETHER	3200U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3200U	4-NITROANILINE	3200U	NAPHTHALENE
6400U	4-NITROPHENOL	3200U	NITROBENZENE
3200U	ACENAPHTHENE	6400U	PENTACHLOROPHENOL
3200U	ACENAPHTHYLENE	3200U	PHENANTHRENE
3200U	ANTHRACENE	3200U	PHENOL
3200U	BENZO (A) ANTHRACENE	3200U	PYRENE
3200U	BENZO (B AND/OR K) FLUORANTHENE	15.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 156 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T26-001  
\*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\* CITY: PENSACOLA ST: FL  
\*\* COLLECTION START: 10/20/95 1440 STOP: 00/00/00  
\*\*  
\*\*\* \*\* \*\* \*\*~

RESULTS UNITS PARAMETER  
0.24U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS I GEMENT SYSTEM  
EPA-REGION IV ES THENS, GA.

1 5/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 157 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T27-001

PROG ELEM: SSF COLLECTED BY: J VAIL

CITY: PENSACOLA ST: FL

COLLECTION START: 10/20/95 1325 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.00	SILVER	500	CALCIUM
3.00	ARSENIC	100	MAGNESIUM
NA	BORON	120	IRON
1.00	BARIUM	1000	SODIUM
0.500	BERYLLIUM	2000	POTASSIUM
0.500	CADMIUM	19	PERCENT MOISTURE
1.00	COBALT		
1.00	CHROMIUM		
5.7	COPPER		
1.00	MOLYBDENUM		
2.00	NICKEL		
6.2	LEAD		
3.00	ANTIMONY		
4.00	SELENIUM		
2.50	TIN		
1.00	STRONTIUM		
5.00	TELLURIUM		
3.4	TITANIUM		
100	THALLIUM		
1.00	VANADIUM		
1.00	YTTRIUM		
4.6	ZINC		
NA	ZIRCONIUM		
0.07	MERCURY		
60	ALUMINUM		
1.5	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002    SAMPLE NO. 157    SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SB-T27-001

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM

EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PROG ELEM: SSF    COLLECTED BY: J VAIL

CITY: PENSACOLA    ST: FL

COLLECTION START: 10/20/95 1325    STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
54U	CHLOROMETHANE	54U	CIS-1,3-DICHLOROPROPENE
54U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
54U	BROMOMETHANE	54U	TOLUENE
54U	CHLOROETHANE	54U	TRANS-1,3-DICHLOROPROPENE
54U	TRICHLOROFLUOROMETHANE	54U	1,1,2-TRICHLOROETHANE
54U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	54U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
540U	ACETONE	54U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
54U	METHYLENE CHLORIDE	54U	DIBROMOCHLOROMETHANE
54U	TRANS-1,2-DICHLOROETHENE	54U	CHLOROBENZENE
54U	1,1-DICHLOROETHANE	54U	1,1,1,2-TETRACHLOROETHANE
54U	CIS-1,2-DICHLOROETHENE	54U	ETHYL BENZENE
54U	2,2-DICHLOROPROPANE	54U	(M- AND/OR P-) XYLENE
540U	METHYL ETHYL KETONE	54U	O-XYLENE
54U	BROMOCHLOROMETHANE	54U	STYRENE
54U	CHLOROFORM	54U	BROMOFORM
54U	1,1,1-TRICHLOROETHANE	54U	BROMOBENZENE
54U	1,1-DICHLOROPROPENE	54U	1,1,2,2-TETRACHLOROETHANE
54U	CARBON TETRACHLORIDE	54U	1,2,3-TRICHLOROPROPANE
54U	1,2-DICHLOROETHANE	54U	O-CHLOROTOLUENE
54U	BENZENE	54U	P-CHLOROTOLUENE
54U	TRICHLOROETHENE (TRICHLOROETHYLENE)	54U	1,3-DICHLOROBENZENE
54U	1,2-DICHLOROPROPANE	54U	1,4-DICHLOROBENZENE
54U	DIBROMOMETHANE	54U	1,2-DICHLOROBENZENE
54U	BROMODICHLOROMETHANE	22.5	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE    \*NA-NOT ANALYZED    \*J-ESTIMATED VALUE    \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN    \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION L/MIT.

SAMPLE AND ANALYSIS EPA-REGION IV E  
ATHENS, GA.

27/95

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 157  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T27-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1325 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
3300U	(3-AND/OR 4-)METHYLPHENOL	3300U	BENZO (GHI) PERYLENE
3300U	1,2,4-TRICHLOROBENZENE	3300U	BENZO-A-PYRENE
3300U	2,2'-CHLOROISOPROPYLETHET	3300U	BENZYL BUTYL PHTHALATE
3300U	2,3,4,6-TETRACHLOROPHENOL	3300U	BIS(2-CHLOROETHOXY) METHANE
3300U	2,4,5-TRICHLOROPHENOL	3300U	BIS(2-CHLOROETHYL) ETHER
3300U	2,4,6-TRICHLOROPHENOL	3300U	BIS(2-ETHYLHEXYL) PHTHALATE
3300U	2,4-DICHLOROPHENOL	3300U	CARBAZOLE
3300U	2,4-DIMETHYLPHENOL	3300U	CHRYSENE
6600U	2,4-DINITROPHENOL	3300U	DI-N-BUTYLPHTHALATE
3300U	2,4-DINITROTOLUENE	3300U	DI-N-OCTYLPHTHALATE
3300U	2,6-DINITROTOLUENE	3300U	DIBENZO(A,H)ANTHRACENE
3300U	2-CHLORONAPHTHALENE	3300U	DIBENZOFURAN
3300U	2-CHLOROPHENOL	3300U	DIETHYL PHTHALATE
6600U	2-METHYL-4,6-DINITROPHENOL	3300U	DIMETHYL PHTHALATE
3300U	2-METHYLNAPHTHALENE	3300U	FLUORANTHENE
3300U	2-METHYLPHENOL	3300U	FLUORENE
3300U	2-NITROANILINE	3300U	HEXACHLOROBENZENE (HCB)
3300U	2-NITROPHENOL	3300U	HEXACHLOROBUTADIENE
3300U	3,3'-DICHLOROBENZIDINE	3300U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3300U	3-NITROANILINE	3300U	HEXACHLOROETHANE
3300U	4-BROMOPHENYL PHENYL ETHER	3300U	INDENO (1,2,3-CD) PYRENE
3300U	4-CHLORO-3-METHYLPHENOL	3300U	ISOPHORONE
3300U	4-CHLOROANILINE	3300U	N-NITROSODI-N-PROPYLAMINE
3300U	4-CHLOROPHENYL PHENYL ETHER	3300U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3300U	4-NITROANILINE	3300U	NAPHTHALENE
6600U	4-NITROPHENOL	3300U	NITROBENZENE
3300U	ACENAPHTHENE	6600U	PENTACHLOROPHENOL
3300U	ACENAPHTHYLENE	3300U	PHENANTHRENE
3300U	ANTHRACENE	3300U	PHENOL
3300U	BENZO(A)ANTHRACENE	3300U	PYRENE
3300U	BENZO(B AND/OR K)FLUORANTHENE	22.5	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

**SPECIFIED ANALYSIS DATA REPORT**

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SPECIFIED ANALYSIS DATA REPORT
*** ** ** ** ** *** ** ** ** ** *** ** ** ** *
** PROJECT NO. 96-0002 SAMPLE NO. 157 SAMPLE TYPE: SOIL          *** ** ** ** *
** SOURCE: NAS PENSACOLA                                     PROG ELEM: SSF COLLECTED BY: J VAIL      *** ** ** 
** STATION ID: SB-T27-001                                CITY: PENSACOLA           ST: FL              *** ** ** 
***                                         COLLECTION START: 10/20/95 1325 STOP: 00/00/00 *** ** ** 

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RESULTS	UNITS	PARAMETER
0.25U	MG/KG	CYANIDE

\*\*\* FOOTNOTES \*\*\*

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



METALS DATA REPORT  
\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 158 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T28-001

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1630 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.00	SILVER	150	CALCIUM
3.00	ARSENIC	17	MAGNESIUM
NA	BORON	270	IRON
3.8	BARIUM	1000	SODIUM
0.50U	BERYLLIUM	2000	POTASSIUM
0.50U	CADMIUM	19	PERCENT MOISTURE
1.00	COBALT		
11	CHROMIUM		
10	COPPER		
1.00	MOLYBDENUM		
2.00	NICKEL		
10	LEAD		
3.00	ANTIMONY		
4.00	SELENIUM		
3.50	TIN		
1.2	STRONTIUM		
5.00	TELLURIUM		
4.6	TITANIUM		
100	THALLIUM		
1.00	VANADIUM		
1.00	YTTRIUM		
12	ZINC		
NA	ZIRCONIUM		
0.05U	MERCURY		
110	ALUMINUM		
4.0	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*A-AVERAGE VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 158 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T28-001  
\*\*  
\*\*\* \*\* \*\* \*\* \*\* \*\* \*\*  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1630 STOP: 00/00/00  
\*\*\* \*\* \*\* \*\*~

UG/KG ANALYTICAL RESULTS

47U CHLOROMETHANE  
47U VINYL CHLORIDE  
47U BROMOMETHANE  
47U CHLOROETHANE  
47U TRICHLOROFLUOROMETHANE  
47U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
470U ACETONE  
120U CARBON DISULFIDE  
47U METHYLENE CHLORIDE  
47U TRANS-1,2-DICHLOROETHENE  
47U 1,1-DICHLOROETHANE  
47U CIS-1,2-DICHLOROETHENE  
47U 2,2-DICHLOROPROPANE  
470U METHYL ETHYL KETONE  
47U BROMOCHLOROMETHANE  
47U CHLOROFORM  
47U 1,1,1-TRICHLOROETHANE  
47U 1,1-DICHLOROPROPENE  
47U CARBON TETRACHLORIDE  
47U 1,2-DICHLOROETHANE  
47U BENZENE  
47U TRICHLOROETHENE (TRICHLOROETHYLENE)  
47U 1,2-DICHLOROPROPANE  
47U DIBROMOMETHANE  
47U BROMODICHLOROMETHANE

UG/KG ANALYTICAL RESULTS

47U CIS-1,3-DICHLOROPROPENE  
120U METHYL ISOBUTYL KETONE  
47U TOLUENE  
47U TRANS-1,3-DICHLOROPROPENE  
47U 1,1,2-TRICHLOROETHANE  
4.8J TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
47U 1,3-DICHLOROPROPANE  
120U METHYL BUTYL KETONE  
47U DIBROMOCHLOROMETHANE  
47U CHLOROBENZENE  
47U 1,1,1,2-TETRACHLOROETHANE  
47U ETHYL BENZENE  
47U (M- AND/OR P-) XYLENE  
47U O-XYLENE  
47U STYRENE  
47U BROMOFORM  
47U BROMOBENZENE  
47U 1,1,2,2-TETRACHLOROETHANE  
47U 1,2,3-TRICHLOROPROPANE  
47U O-CHLOROTOLUENE  
47U P-CHLOROTOLUENE  
47U 1,3-DICHLOROBENZENE  
47U 1,4-DICHLOROBENZENE  
47U 1,2-DICHLOROBENZENE  
18.7 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 158  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T28-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1630 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
3500U	(3-AND/OR 4-) METHYLPHENOL	3500U	BENZO (GHI) PERYLENE
3500U	1,2,4-TRICHLOROBENZENE	3500U	BENZO-A-PYRENE
3500U	2,2'-CHLOROISOPROPYLETHET	3500U	BENZYL BUTYL PHTHALATE
3500U	2,3,4,6-TETRACHLOROPHENOL	3500U	BIS(2-CHLOROETHOXY) METHANE
3500U	2,4,5-TRICHLOROPHENOL	3500U	BIS(2-CHLOROETHYL) ETHER
3500U	2,4,6-TRICHLOROPHENOL	3500U	BIS(2-ETHYLHEXYL) PHTHALATE
3500U	2,4-DICHLOROPHENOL	3500U	CARBAZOLE
3500U	2,4-DIMETHYLPHENOL	3500U	CHRYSENE
7000U	2,4-DINITROPHENOL	3500U	DI-N-BUTYLPHTHALATE
3500U	2,4-DINITROTOLUENE	3500U	DI-N-OCTYLPHTHALATE
3500U	2,6-DINITROTOLUENE	3500U	DIBENZO(A,H)ANTHRACENE
3500U	2-CHLORONAPHTHALENE	3500U	DIBENZOFURAN
3500U	2-CHLOROPHENOL	3500U	DIETHYL PHTHALATE
7000U	2-METHYL-4,6-DINITROPHENOL	3500U	DIMETHYL PHTHALATE
3500U	2-METHYLNAPHTHALENE	3500U	FLUORANTHENE
3500U	2-METHYLPHENOL	3500U	FLUORENE
3500U	2-NITROANILINE	3500U	HEXACHLOROBENZENE (HCB)
3500U	2-NITROPHENOL	3500U	HEXACHLOROBUTADIENE
3500U	3,3'-DICHLOROBENZIDINE	3500U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3500U	3-NITROANILINE	3500U	HEXACHLOROETHANE
3500U	4-BROMOPHENYL PHENYL ETHER	3500U	INDENO (1,2,3 CD) PYRENE
3500U	4-CHLORO-3-METHYLPHENOL	3500U	ISOPHORONE
3500U	4-CHLOROANILINE	3500U	N-NITROSODI-N-PROPYLAMINE
3500U	4-CHLOROPHENYL PHENYL ETHER	3500U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3500U	4-NITROANILINE	3500U	NAPHTHALENE
7000U	4-NITROPHENOL	3500U	NITROBENZENE
3500U	ACENAPHTHENE	7000U	PENTACHLOROPHENOL
3500U	ACENAPHTHYLENE	3500U	PHENANTHRENE
3500U	ANTHRACENE	3500U	PHENOL
3500U	BENZO(A)ANTHRACENE	3500U	PYRENE
3500U	BENZO(B AND/OR K)FLUORANTHENE	18.7	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 158 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T28-001  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/20/95 1630 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.25U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS  
EPA REGION IV ES

EMENT SYSTEM  
THENS, GA.

1  
/95

METALS DATA R  
PROJECT NO. 96-0002  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T30-001

160  
SAMPLE TYPE: SOIL  
PROG ELEM: SSF  
CITY: PENSACOLA  
COLLECTION START: 10/21/95  
STOP: 00/00/00

COLLECTED BY: J VAIL  
ST: FL

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

57  
100  
180  
1000  
2000  
9

CALCIUM  
MAGNESIUM  
IRON  
SODIUM  
POTASSIUM  
PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-LESS THAN VALUE GIVEN  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002    SAMPLE NO. 160    SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T30-001

PROG ELEM: SSF    COLLECTED BY: J VAIL  
CITY: PENSACOLA    ST: FL  
COLLECTION START: 10/21/95    0905    STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
59U	CHLOROMETHANE	59U	CIS-1,3-DICHLOROPROPENE
59U	VINYL CHLORIDE	150U	METHYL ISOBUTYL KETONE
59U	BROMOMETHANE	59U	TOLUENE
59U	CHLOROETHANE	59U	TRANS-1,3-DICHLOROPROPENE
59U	TRICHLOROFLUOROMETHANE	59U	1,1,2-TRICHLOROETHANE
59U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	27J	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
590U	ACETONE	59U	1,3-DICHLOROPROPANE
150U	CARBON DISULFIDE	150U	METHYL BUTYL KETONE
59U	METHYLENE CHLORIDE	59U	DIBROMOCHLOROMETHANE
59U	TRANS-1,2-DICHLOROETHENE	59U	CHLOROBENZENE
59U	1,1-DICHLOROETHANE	59U	1,1,1,2-TETRACHLOROETHANE
59U	CIS-1,2-DICHLOROETHENE	59U	ETHYL BENZENE
59U	2,2-DICHLOROPROPANE	59U	(M- AND/OR P-) XYLENE
590U	METHYL ETHYL KETONE	59U	O-XYLENE
59U	BROMOCHLOROMETHANE	59U	STYRENE
59U	CHLOROFORM	59U	BROMOFORM
59U	1,1,1-TRICHLOROETHANE	59U	BROMOBENZENE
59U	1,1-DICHLOROPROPENE	59U	1,1,2,2-TETRACHLOROETHANE
59U	CARBON TETRACHLORIDE	59U	1,2,3-TRICHLOROPROPANE
59U	1,2-DICHLOROETHANE	59U	O-CHLOROTOLUENE
59U	BENZENE	59U	P-CHLOROTOLUENE
59U	TRICHLOROETHENE (TRICHLOROETHYLENE)	59U	1,3-DICHLOROBENZENE
59U	1,2-DICHLOROPROPANE	59U	1,4-DICHLOROBENZENE
59U	DIBROMOMETHANE	59U	1,2-DICHLOROBENZENE
59U	BROMODICHLOROMETHANE	22.6	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE    \*NA-NOT ANALYZED    \*J-ESTIMATED VALUE    \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN    \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS EPA REGION IV ES AGEMENT SYSTEM ATHENS, GA. 1/95

EXTRACTABLE ORGANICS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 160  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T30-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/21/95 0905 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
3200U	(3-AND/OR 4-)METHYLPHENOL	3200U	BENZO(GHI)PERYLENE
3200U	1,2,4-TRICHLOROBENZENE	3200U	BENZO-A-PYRENE
3200U	2,2'-CHLOROISOPROPYLETHYER	3200U	BENZYL BUTYL PHTHALATE
3200U	2,3,4,6-TETRACHLOROPHENOL	3200U	BIS(2-CHLOROETHOXY) METHANE
3200U	2,4,5-TRICHLOROPHENOL	3200U	BIS(2-CHLOROETHYL) ETHER
3200U	2,4,6-TRICHLOROPHENOL	3200U	BIS(2-ETHYLHEXYL) PHTHALATE
3200U	2,4-DICHLOROPHENOL	3200U	CARBAZOLE
3200U	2,4-DIMETHYLPHENOL	3200U	CHRYSENE
6400U	2,4-DINITROPHENOL	3200U	DI-N-BUTYLPHTHALATE
3200U	2,4-DINITROTOLUENE	3200U	DI-N-OCTYLPHTHALATE
3200U	2,6-DINITROTOLUENE	3200U	DIBENZO(A,H)ANTHRACENE
3200U	2-CHLORONAPHTHALENE	3200U	DIBENZOFURAN
3200U	2-CHLOROPHENOL	3200U	DIETHYL PHTHALATE
6400U	2-METHYL-4,6-DINITROPHENOL	3200U	DIMETHYL PHTHALATE
3200U	2-METHYLNAPHTHALENE	3200U	FLUORANTHENE
3200U	2-METHYLPHENOL	3200U	FLUORENE
3200U	2-NITROANILINE	3200U	HEXACHLOROBENZENE (HCB)
3200U	2-NITROPHENOL	3200U	HEXACHLOROBUTADIENE
3200U	3,3'-DICHLOROBENZIDINE	3200U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3200U	3-NITROANILINE	3200U	HEXACHLOROETHANE
3200U	4-BROMOPHENYL PHENYL ETHER	3200U	INDENO (1,2,3-CD) PYRENE
3200U	4-CHLORO-3-METHYLPHENOL	3200U	ISOPHORONE
3200U	4-CHLOROANILINE	3200U	N-NITROSODI-N-PROPYLAMINE
3200U	4-CHLOROPHENYL PHENYL ETHER	3200U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3200U	4-NITROANILINE	3200U	NAPHTHALENE
6400U	4-NITROPHENOL	3200U	NITROBENZENE
3200U	ACENAPHTHENE	6400U	PENTACHLOROPHENOL
3200U	ACENAPHTHYLENE	3200U	PHENANTHRENE
3200U	ANTHRACENE	3200U	PHENOL
3200U	BENZO(A)ANTHRACENE	3200U	PYRENE
3200U	BENZO(B AND/OR K)FLUORANTHENE	22.6	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS  
EPA-REGION IV ES

AGEMENT SYSTEM  
ATHENS, GA.

.5/95

METALS DATA REPORT

PROJECT NO. 96 0002 SAMPLE NO. 161 SAMPLE TYPE: SOIL

SOURCE: NAS PENSACOLA

STATION ID: SB-T31-001

PROG ELEM: SSF COLLECTED BY: J VAIL

CITY: PENSACOLA ST: FL

COLLECTION START: 10/21/95 1040 STOP: 00/00/00

ANALYTICAL RESULTS

MG/KG

500 CALCIUM

9.4 MAGNESIUM

160 IRON

1000 SODIUM

2000 POTASSIUM

15 PERCENT MOISTURE

ANALYTICAL RESULTS

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*NA-NOT ANALYZED

\*NAI-INTERFERENCES

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 161 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T31-001  
\*\*  
\*\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/21/95 1040 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
53U	CHLOROMETHANE	53U	CIS-1,3-DICHLOROPROPENE
53U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
53U	BROMOMETHANE	53U	TOLUENE
53U	CHLOROETHANE	53U	TRANS-1,3-DICHLOROPROPENE
53U	TRICHLOROFLUOROMETHANE	53U	1,1,2-TRICHLOROETHANE
53U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	53U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
530U	ACETONE	53U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
53U	METHYLENE CHLORIDE	53U	DIBROMOCHLOROMETHANE
53U	TRANS-1,2-DICHLOROETHENE	53U	CHLOROBENZENE
53U	1,1-DICHLOROETHANE	53U	1,1,1,2-TETRACHLOROETHANE
53U	CIS-1,2-DICHLOROETHENE	53U	ETHYL BENZENE
53U	2,2-DICHLOROPROPANE	53U	(M- AND/OR P-) XYLENE
530U	METHYL ETHYL KETONE	53U	O-XYLENE
53U	BROMOCHLOROMETHANE	53U	STYRENE
53U	CHLOROFORM	53U	BROMOFORM
53U	1,1,1-TRICHLOROETHANE	53U	BROMOBENZENE
53U	1,1-DICHLOROPROPENE	53U	1,1,2,2-TETRACHLOROETHANE
53U	CARBON TETRACHLORIDE	53U	1,2,3-TRICHLOROPROPANE
53U	1,2-DICHLOROETHANE	53U	O-CHLOROTOLUENE
53U	BENZENE	53U	P-CHLOROTOLUENE
53U	TRICHLOROETHENE(TRICHLOROETHYLENE)	53U	1,3-DICHLOROBENZENE
53U	1,2-DICHLOROPROPANE	53U	1,4-DICHLOROBENZENE
53U	DIBROMOMETHANE	53U	1,2-DICHLOROBENZENE
53U	BROMODICHLOROMETHANE	14.6	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

XTRACTABLE ORGANICS DATA REPORT  
PROJECT NO. 96 0002 SAMPLE NO. 161 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T31-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/21/95 1040 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
3500U	(3-AND/OR 4-)METHYLPHENOL	3500U	BENZO (GHI) PERYLENE
3500U	1,2,4-TRICHLOROBENZENE	3500U	BENZO-A-PYRENE
3500U	2,2'-CHLOROISOPROPYLETHER	3500U	BENZYL BUTYL PHTHALATE
3500U	2,3,4,6-TETRACHLOROPHENOL	3500U	BIS(2-CHLOROETHOXY) METHANE
3500U	2,4,5-TRICHLOROPHENOL	3500U	BIS(2-CHLOROETHYL) ETHER
3500U	2,4,6-TRICHLOROPHENOL	3500U	BIS(2-ETHYLHEXYL) PHTHALATE
3500U	2,4-DICHLOROPHENOL	3500U	CARBAZOLE
3500U	2,4-DIMETHYLPHENOL	3500U	CHRYSENE
7100U	2,4-DINITROPHENOL	3500U	DI-N-BUTYLPHTHALATE
3500U	2,4-DINITROTOLUENE	3500U	DI-N-OCTYLPHTHALATE
3500U	2,6-DINITROTOLUENE	3500U	DIBENZO (A, H) ANTHRACENE
3500U	2-CHLORONAPHTHALENE	3500U	DIBENZOFURAN
3500U	2-CHLOROPHENOL	3500U	DIETHYL PHTHALATE
7100U	2-METHYL-4,6-DINITROPHENOL	3500U	DIMETHYL PHTHALATE
3500U	2-METHYLNAPHTHALENE	3500U	FLUORANTHENE
3500U	2-METHYLPHENOL	3500U	FLUORENE
3500U	2-NITROANILINE	3500U	HEXACHLOROBENZENE (HCB)
3500U	2-NITROPHENOL	3500U	HEXACHLOROBUTADIENE
3500U	3,3'-DICHLOROBENZIDINE	3500U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3500U	3-NITROANILINE	3500U	HEXACHLOROETHANE
3500U	4-BROMOPHENYL PHENYL ETHER	3500U	INDENO (1,2,3-CD) PYRENE
3500U	4-CHLORO-3-METHYLPHENOL	3500U	ISOPHORONE
3500U	4-CHLOROANILINE	3500U	N-NITROSODI-N-PROPYLAMINE
3500U	4-CHLOROPHENYL PHENYL ETHER	3500U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3500U	4-NITROANILINE	3500U	NAPHTHALENE
7100U	4-NITROPHENOL	3500U	NITROBENZENE
3500U	ACENAPHTHENE	7100U	PENTACHLOROPHENOL
3500U	ACENAPHTHYLENE	3500U	PHENANTHRENE
3500U	ANTHRACENE	3500U	PHENOL
3500U	BENZO (A) ANTHRACENE	3500U	PYRENE
3500U	BENZO (B AND/OR K) FLUORANTHENE	14.6	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 161 SAMPLE TYPE: SOIL  
\*\* SOURCE: NAS PENSACOLA  
\*\* STATION ID: SB-T31-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/21/95 1040 STOP: 00/00/00

RESULTS UNITS PARAMETER  
0.24U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS GEMENT SYSTEM  
EPA-REGION IV ESL, ATHENS, GA.

12, 15/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 163 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T33-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1130 STOP: 00/00/00

ANALYTICAL RESULTS

MG/KG

ANALYTICAL RESULTS

SILVER 1.0U  
ARSENIC 3.0U  
BORON NA  
BARIUM 1.0U  
BERYLLIUM 0.50U  
CADMIUM 0.50U  
COBALT 1.0U  
CHROMIUM 1.0U  
COPPER 1.0U  
MOLYBDENUM 1.0U  
NICKEL 2.0U  
LEAD 4.8  
ANTIMONY 3.0U  
SELENIUM 4.0U  
TIN 3.0U  
STRONTIUM 1.0U  
TELLURIUM 5.0U  
TITANIUM 4.8  
THALLIUM 10U  
VANADIUM 1.0U  
YTTRIUM 1.0U  
ZINC 3.2  
ZIRCONIUM NA  
MERCURY 0.05U  
ALUMINUM 120  
MANGANESE 1.0U

CALCIUM 68  
MAGNESIUM 14  
IRON 100  
SODIUM 100U  
POTASSIUM 200U  
PERCENT MOISTURE 19

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 163 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T33-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/23/95 1130 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

53U CHLOROMETHANE  
53U VINYL CHLORIDE  
53U BROMOMETHANE  
53U CHLOROETHANE  
53U TRICHLOROFLUOROMETHANE  
53U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
53U ACETONE  
130U CARBON DISULFIDE  
53U METHYLENE CHLORIDE  
53U TRANS-1,2-DICHLOROETHENE  
53U 1,1-DICHLOROETHANE  
53U CIS-1,2-DICHLOROETHENE  
53U 2,2-DICHLOROPROPANE  
53U METHYL ETHYL KETONE  
53U BROMOCHLOROMETHANE  
53U CHLOROFORM  
53U 1,1,1-TRICHLOROETHANE  
53U 1,1-DICHLOROPROPENE  
53U CARBON TETRACHLORIDE  
53U 1,2-DICHLOROETHANE  
53U BENZENE  
53U TRICHLOROETHENE (TRICHLOROETHYLENE)  
53U 1,2-DICHLOROPROPANE  
53U DIBROMOMETHANE  
53U BROMODICHLOROMETHANE

53U CIS-1,3-DICHLOROPROPENE  
130U METHYL ISOBUTYL KETONE  
53U TOLUENE  
53U TRANS-1,3-DICHLOROPROPENE  
53U 1,1,2-TRICHLOROETHANE  
53U TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
53U 1,3-DICHLOROPROPANE  
130U METHYL BUTYL KETONE  
53U DIBROMOCHLOROMETHANE  
53U CHLOROBENZENE  
53U 1,1,1,2-TETRACHLOROETHANE  
53U ETHYL BENZENE  
53U (M- AND/OR P-) XYLENE  
53U O-XYLENE  
53U STYRENE  
53U BROMOFORM  
53U BROMOBENZENE  
53U 1,1,2,2-TETRACHLOROETHANE  
53U 1,2,3-TRICHLOROPROPANE  
53U O-CHLOROTOLUENE  
53U P-CHLOROTOLUENE  
53U 1,3-DICHLOROBENZENE  
53U 1,4-DICHLOROBENZENE  
53U 1,2-DICHLOROBENZENE  
21.2 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



EXTRACTABLE ORGANICS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 163  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T33-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1130 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
3700U	(3- AND/OR 4-) METHYLPHENOL	3700U	BENZO (GHI) PERYLENE
3700U	1,2,4-TRICHLOROBENZENE	3700U	BENZO-A-PYRENE
3700U	2,2'-CHLOROISOPROPYLETHYER	3700U	BENZYL BUTYL PHTHALATE
3700U	2,3,4,6-TETRACHLOROPHENOL	3700U	BIS (2-CHLOROETHOXY) METHANE
3700U	2,4,5-TRICHLOROPHENOL	3700U	BIS (2-CHLOROETHYL) ETHER
3700U	2,4,6-TRICHLOROPHENOL	3700U	BIS (2-ETHYLHEXYL) PHTHALATE
3700U	2,4-DICHLOROPHENOL	3700U	CARBAZOLE
3700U	2,4-DIMETHYLPHENOL	3700U	CHRYSENE
7400U	2,4-DINITROPHENOL	3700U	DI-N-BUTYLPHTHALATE
3700U	2,4-DINITROTOLUENE	3700U	DI-N-OCTYLPHTHALATE
3700U	2,6-DINITROTOLUENE	3700U	DIBENZO (A,H) ANTHRACENE
3700U	2-CHLORONAPHTHALENE	3700U	DIBENZOFURAN
3700U	2-CHLOROPHENOL	3700U	DIETHYL PHTHALATE
7400U	2-METHYL-4,6-DINITROPHENOL	3700U	DIMETHYL PHTHALATE
3700U	2-METHYLNAPHTHALENE	3700U	FLUORANTHENE
3700U	2-METHYLPHENOL	3700U	FLUORENE
3700U	2-NITROANILINE	3700U	HEXACHLOROBENZENE (HCB)
3700U	2-NITROPHENOL	3700U	HEXACHLOROBUTADIENE
3700U	3,3'-DICHLOROBENZIDINE	3700U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3700U	3-NITROANILINE	3700U	HEXACHLOROETHANE
3700U	4-BROMOPHENYL PHENYL ETHER	3700U	INDENO (1,2,3 CD) PYRENE
3700U	4-CHLORO-3-METHYLPHENOL	3700U	ISOPHORONE
3700U	4-CHLOROANILINE	3700U	N-NITROSODI-N PROPYLAMINE
3700U	4-CHLOROPHENYL PHENYL ETHER	3700U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3700U	4-NITROANILINE	3700U	NAPHTHALENE
7400U	4-NITROPHENOL	3700U	NITROBENZENE
3700U	ACENAPHTHENE	7400U	PENTACHLOROPHENOL
3700U	ACENAPHTHYLENE	3700U	PHENANTHRENE
3700U	ANTHRACENE	3700U	PHENOL
3700U	BENZO (A) ANTHRACENE	3700U	PYRENE
3700U	BENZO (B AND/OR K) FLUORANTHENE	21.2	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





METALS DATA RT  
\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 164 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T34-001  
\*\*\*

PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1410 STOP: 00/00/00

ANALYTICAL RESULTS									
MG/KG									
1.00	SILVER	500	CALCIUM	100	MAGNESIUM	130	IRON	1000	SODIUM
3.00	ARSENIC	100	MAGNESIUM	130	IRON	2000	POTASSIUM	16	PERCENT MOISTURE
1.00	NA	100	IRON	1000	SODIUM	2000	POTASSIUM	16	PERCENT MOISTURE
0.500	BERYLLIUM	1000	SODIUM	2000	POTASSIUM	16	PERCENT MOISTURE		
0.500	CADMIUM	1000	POTASSIUM	16	PERCENT MOISTURE				
1.00	COBALT								
1.00	CHROMIUM								
1.00	COPPER								
1.00	MOLYBDENUM								
2.00	NICKEL								
4.00	LEAD								
3.00	ANTIMONY								
4.00	SELENIUM								
3.00	TIN								
1.00	STRONTIUM								
5.00	TELLURIUM								
4.8	TITANIUM								
100	THALLIUM								
1.00	VANADIUM								
1.00	YTRIUM								
7.8	ZINC								
NA	ZIRCONIUM								
0.050	MERCURY								
96	ALUMINUM								
1.00	MANGANESE								

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/04/95

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 96-0002 SAMPLE NO. 164 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: NAS PENSACOLA  
\*\*\* STATION ID: SB-T34-001  
\*\*\* PROG ELEM: SSF COLLECTED BY: J VAIL  
\*\*\* CITY: PENSACOLA ST: FL  
\*\*\* COLLECTION START: 10/23/95 1410 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

52U	CHLOROMETHANE	52U	CIS-1,3-DICHLOROPROPENE
52U	VINYL CHLORIDE	130U	METHYL ISOBUTYL KETONE
52U	BROMOMETHANE	52U	TOLUENE
52U	CHLOROETHANE	52U	TRANS-1,3-DICHLOROPROPENE
52U	TRICHLOROFLUOROMETHANE	52U	1,1,2-TRICHLOROETHANE
52U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	52U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
520U	ACETONE	52U	1,3-DICHLOROPROPANE
130U	CARBON DISULFIDE	130U	METHYL BUTYL KETONE
52U	METHYLENE CHLORIDE	52U	DIBROMOCHLOROMETHANE
52U	TRANS-1,2-DICHLOROETHENE	52U	CHLOROBENZENE
52U	1,1-DICHLOROETHANE	52U	1,1,1,2-TETRACHLOROETHANE
52U	CIS-1,2-DICHLOROETHENE	52U	ETHYL BENZENE
52U	2,2-DICHLOROPROPANE	52U	(M- AND/OR P-)XYLENE
520U	METHYL ETHYL KETONE	52U	O-XYLENE
52U	BROMOCHLOROMETHANE	52U	STYRENE
52U	CHLOROFORM	52U	BROMOFORM
52U	1,1,1-TRICHLOROETHANE	52U	BROMOBENZENE
52U	1,1-DICHLOROPROPENE	52U	1,1,2,2-TETRACHLOROETHANE
52U	CARBON TETRACHLORIDE	52U	1,2,3-TRICHLOROPROPANE
52U	1,2-DICHLOROETHANE	52U	O-CHLOROTOLUENE
52U	BENZENE	52U	P-CHLOROTOLUENE
52U	TRICHLOROETHENE(TRICHLOROETHYLENE)	52U	1,3-DICHLOROBENZENE
52U	1,2-DICHLOROPROPANE	52U	1,4-DICHLOROBENZENE
52U	DIBROMOMETHANE	52U	1,2-DICHLOROBENZENE
52U	BROMODICHLOROMETHANE	13.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 164 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T34-001  
PROG ELEM: SSF COLLECTED BY: J VAIL  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/23/95 1410 STOP: 00/00/00

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
3400U	(3-AND/OR 4-)METHYLPHENOL	3400U	BENZO (GHI) PERYLENE
3400U	1,2,4-TRICHLOROBENZENE	3400U	BENZO-A-PYRENE
3400U	2,2'-CHLOROISOPROPYLETHER	3400U	BENZYL BUTYL PHTHALATE
3400U	2,3,4,6-TETRACHLOROPHENOL	3400U	BIS(2-CHLOROETHOXY) METHANE
3400U	2,4,5-TRICHLOROPHENOL	3400U	BIS(2-CHLOROETHYL) ETHER
3400U	2,4,6-TRICHLOROPHENOL	3400U	BIS(2-ETHYLHEXYL) PHTHALATE
3400U	2,4-DICHLOROPHENOL	3400U	CARBAZOLE
3400U	2,4-DIMETHYLPHENOL	3400U	CHRYSENE
3400U	2,4-DINITROPHENOL	3400U	DI-N-BUTYLPHTHALATE
6800U	2,4-DINITROTOLUENE	3400U	DI-N-OCTYLPHTHALATE
3400U	2,6-DINITROTOLUENE	3400U	DIBENZO(A,H)ANTHRACENE
3400U	2-CHLORONAPHTHALENE	3400U	DIBENZOFURAN
3400U	2-CHLOROPHENOL	3400U	DIETHYL PHTHALATE
6800U	METHYL-4,6-DINITROPHENOL	3400U	DIMETHYL PHTHALATE
3400U	2-METHYLNAPHTHALENE	3400U	FLUORANTHENE
3400U	2-METHYLPHENOL	3400U	FLUORENE
3400U	2-NITROANILINE	3400U	HEXACHLOROBENZENE (HCB)
3400U	2-NITROPHENOL	3400U	HEXACHLOROBUTADIENE
3400U	3,3'-DICHLOROBENZIDINE	3400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
3400U	3-NITROANILINE	3400U	HEXACHLOROETHANE
3400U	4-BROMOPHENYL PHENYL ETHER	3400U	INDENO (1,2,3 CD) PYRENE
3400U	4-CHLORO-3-METHYLPHENOL	3400U	ISOPHORONE
3400U	4-CHLOROANILINE	3400U	N-NITROSODI-N-PROPYLAMINE
3400U	4-CHLOROPHENYL PHENYL ETHER	3400U	N-NITROSODIPHNYLAMINE/DIPHENYLAMINE
3400U	4-NITROANILINE	3400U	NAPHTHALENE
3400U	4-NITROPHENOL	3400U	NITROBENZENE
6800U	ACENAPHTHENE	6800U	PENTACHLOROPHENOL
3400U	ACENAPHTHYLENE	3400U	PHENANTHRENE
3400U	ANTHRACENE	3400U	PHENOL
3400U	BENZO(A)ANTHRACENE	3400U	PYRENE
3400U	BENZO(B AND/OR K)FLUORANTHENE	13.3	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS I 3EMENT SYSTEM  
EPA-REGION IV ESI THENS, GA.

1. 0/95

METALS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 179 SAMPLE TYPE: SOIL  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T40-001

PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1000 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG

1.00 SILVER 510 CALCIUM  
3.00 ARSENIC 71 MAGNESIUM  
NA BORON 390 IRON  
4.1 BARIUM 1000 SODIUM  
0.500 BERYLLIUM 2000 POTASSIUM  
1.2 CADMIUM 16 PERCENT MOISTURE  
1.00 COBALT  
6.9 CHROMIUM  
17 COPPER  
1.00 MOLYBDENUM  
2.00 NICKEL  
31 LEAD  
3.00 ANTIMONY  
4.00 SELENIUM  
5.00 TIN  
1.2 STRONTIUM  
5.00 TELLURIUM  
7.6 TITANIUM  
100 THALLIUM  
1.00 VANADIUM  
1.00 YTTRIUM  
26 ZINC  
NA ZIRCONIUM  
0.050 MERCURY  
360 ALUMINUM  
7.3 MANGANESE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS  
EPA-REGION IV ES  
ATHENS, GA.

# EXTRACTABLE ORGANICS DATA REPORT

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** PROJECT NO. 96-0002 SAMPLE NO. 179 SAMPLE TYPE: SOIL
** SOURCE: NAS PENSACOLA
** STATION ID: SB-T40-001
**
** PROG ELEM: SSF COLLECTED BY: D HUNTER
** CITY: PENSACOLA ST: FL
** COLLECTION START: 10/24/95 1000 STOP: 00/00/00

```

ANALYTICAL RESULTS	
UG/KG	UG/KG
( 3 -AND/OR 4 - )METHYLPHENOL	BENZO (GHI) PERYLENE
1 , 2 , 4 - TRICHLOROBENZENE	BENZO-A- PYRENE
2 , 2 ' - CHLOROISOPROPYLETHER	BENZYL BUTYL PHTHALATE
2 , 3 , 4 , 6 - TETRACHLOROPHENOL	BIS ( 2 -CHLOROETHOXY) METHANE
2 , 4 , 5 ' -TRICHLOROPHENOL	BIS ( 2 -CHLOROETHYL) ETHER
2 , 4 , 6 - TRICHLOROPHENOL	BIS ( 2 -ETHYLHEXYL) PHTHALATE
2 , 4 -DICHLOROPHENOL	CARBAZOLE
2 , 4 -DIMETHYLPHENOL	CHRYSENE
2 , 4 -DINITROPHENOL	DI -N-BUTYLPHTHALATE
2 , 4 -DINITROTOLUENE	DI -N-OCTYLPHTHALATE
2 , 6 -DINITROTOLUENE	DIBENZO (A,H)ANTHRACENE
2 -CHLORONAPHTHALENE	DIBENZOFURAN
2 -CHLOROPHENOL	DIETHYL PHTHALATE
2-METHYL- 4 , 6-DINITROPHENOL	DIMETHYL PHTHALATE
2-METHYLNAPHTHALENE	FLUORANTHENE
2-METHYLPHENOL	FLUORENE
2-NITROANILINE	HEXACHLOROBENZENE (HCB)
2-NITROPHENOL	HEXACHLOROBUTADIENE
3 , 3 ' -DICHLOORBENZIDINE	HEXACHLOROCYCLOPENTADIENE (HCCP)
3-NITROANILINE	HEXACHLOROETHANE
4-BROMOPHENYL PHENYL ETHER	INDENO ( 1,2 , 3 -CD) PYRENE
4-CHLORO- 3 -METHYLPHENOL	IOPHORONE
4-CHLOROANILINE	N-NITROSODI -N-PROPYLAMINE
4-CHLOROPHENYL PHENYL ETHER	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4-NITROANILINE	NAPHTHALENE
4-NITROPHENOL	NITROBENZENE
ACENAPHTHENE	PENTACHLOROPHENOL
ACENAPHTHYLENE	PHENANTHRENE
ANTHRACENE	PHENOL
BENZO (A)ANTHRACENE	PYRENE
BENZO ( B AND/OR K) FLUORANTHENE	PERCENT MOISTURE
	2 . 0

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\* FOOTNOTES \*\*\*  
 \* A-AVERAGE VALUE                      \* NA-NOT ANALYZED  
 \* K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \* NAI-INTERFERENCES      \* J-ESTIMATED VALUE      \* N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \* U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS EPA-REGION IV ES THERMENS, GA. 5/95

METALS DATA REPORT  
PROJECT NO. 96-0002 SAMPLE NO. 180  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T41-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1015 STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
MG/KG		MG/KG	
1.00	SILVER	110	CALCIUM
3.00	ARSENIC	12	MAGNESIUM
NA	BORON	170	IRON
2.0	BARIUM	1000	SODIUM
0.500	BERYLLIUM	2000	POTASSIUM
3.4	CADMIUM	20	PERCENT MOISTURE
1.00	COBALT		
10	CHROMIUM		
7.8	COPPER		
1.00	MOLYBDENUM		
2.00	NICKEL		
11	LEAD		
3.00	ANTIMONY		
4.00	SELENIUM		
3.50	TIN		
1.00	STRONTIUM		
5.00	TELLURIUM		
3.0	TITANIUM		
100	THALLIUM		
1.00	VANADIUM		
1.00	YTTRIUM		
36	ZINC		
NA	ZIRCONIUM		
0.050	MERCURY		
96	ALUMINUM		
1.7	MANGANESE		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE ORGANICS DATA REPORT  
\*\*\*  
\*\* PROJECT NO. 96-0002 SAMPLE NO. 180 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: D HUNTER \*\*  
\*\* SOURCE: NAS PENSACOLA CITY: PENSACOLA ST: FL \*\*  
\*\* STATION ID: SB-T41-001 COLLECTION START: 10/24/95 1015 STOP: 00/00/00 \*\*  
\*\* \*\*

ANALYTICAL RESULTS										ANALYTICAL RESULTS									
UG/KG										UG/KG									
44U	CHLOROMETHANE									44U	CIS-1,3-DICHLOROPROPENE								
44U	VINYL CHLORIDE									110U	METHYL ISOBUTYL KETONE								
44U	BROMOMETHANE									44U	TOLUENE								
44U	CHLOROETHANE									44U	TRANS-1,3-DICHLOROPROPENE								
44U	TRICHLOROFLUOROMETHANE									44U	1,1,2-TRICHLOROETHANE								
44U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)									8.2J	TETRACHLOROETHENE (TETRACHLOROETHYLENE)								
44U	ACETONE									44U	1,3-DICHLOROPROPANE								
110U	CARBON DISULFIDE									110U	METHYL BUTYL KETONE								
44U	METHYLENE CHLORIDE									44U	DIBROMOCHLOROMETHANE								
44U	TRANS-1,2-DICHLOROETHENE									44U	CHLOROBENZENE								
44U	1,1-DICHLOROETHANE									44U	1,1,1,2-TETRACHLOROETHANE								
44U	CIS-1,2-DICHLOROETHENE									44U	ETHYL BENZENE								
44U	2,2-DICHLOROPROPANE									44U	(M- AND/OR P-) XYLENE								
44U	METHYL ETHYL KETONE									44U	O-XYLENE								
44U	BROMOCHLOROMETHANE									44U	STYRENE								
44U	CHLOROFORM									44U	BROMOFORM								
44U	1,1,1-TRICHLOROETHANE									44U	BROMOBENZENE								
44U	1,1-DICHLOROPROPENE									44U	1,1,2,2-TETRACHLOROETHANE								
44U	CARBON TETRACHLORIDE									44U	1,2,3-TRICHLOROPROPANE								
44U	1,2-DICHLOROETHANE									44U	O-CHLOROTOLUENE								
44U	BENZENE									44U	P-CHLOROTOLUENE								
6.7J	TRICHLOROETHENE (TRICHLOROETHYLENE)									44U	1,3-DICHLOROBENZENE								
44U	1,2-DICHLOROPROPANE									44U	1,4-DICHLOROBENZENE								
44U	DIBROMOMETHANE									44U	1,2-DICHLOROBENZENE								
44U	BROMODICHLOROMETHANE									19.5	PERCENT MOISTURE								

\*\*\*REMARKS\*\*\*  
\*\*\*REMARKS\*\*\*  
\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 96-0002 SAMPLE NO. 180  
SOURCE: NAS PENSACOLA  
STATION ID: SB-T41-001  
PROG ELEM: SSF COLLECTED BY: D HUNTER  
CITY: PENSACOLA ST: FL  
COLLECTION START: 10/24/95 1015 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG

UG/KG

3200U (3-AND/OR 4-)METHYLPHENOL  
3200U 1,2,4-TRICHLOROBENZENE  
3200U 2,2'-CHLOROISOPROPYLETHER  
3200U 2,3,4,6-TETRACHLOROPHENOL  
3200U 2,4,5-TRICHLOROPHENOL  
3200U 2,4,6-TRICHLOROPHENOL  
3200U 2,4-DICHLOROPHENOL  
3200U 2,4-DIMETHYLPHENOL  
6500U 2,4-DINITROPHENOL  
3200U 2,4-DINITROTOLUENE  
3200U 2,6-DINITROTOLUENE  
3200U 2-CHLORONAPHTHALENE  
3200U 2-CHLOROPHENOL  
6500U 2-METHYL-4,6-DINITROPHENOL  
3200U 2-METHYLNAPHTHALENE  
3200U 2-METHYLPHENOL  
3200U 2-NITROANILINE  
3200U 2-NITROPHENOL  
3200U 3,3'-DICHLOROBENZIDINE  
3200U 3-NITROANILINE  
3200U 4-BROMOPHENYL PHENYL ETHER  
3200U 4-CHLORO-3-METHYLPHENOL  
3200U 4-CHLOROANILINE  
3200U 4-CHLOROPHENYL PHENYL ETHER  
3200U 4-NITROANILINE  
6500U 4-NITROPHENOL  
3200U ACENAPHTHENE  
3200U ACENAPHTHYLENE  
3200U ANTHRACENE  
3200U BENZO(A)ANTHRACENE  
3200U BENZO(B AND/OR K)FLUORANTHENE

BENZO(GH)PERYLENE  
BENZO-A-PYRENE  
BENZYL BUTYL PHTHALATE  
BIS(2-CHLOROETHOXY) METHANE  
BIS(2-CHLOROETHYL) ETHER  
BIS(2-ETHYLHEXYL) PHTHALATE  
CARBAZOLE  
CHRYSENE  
DI-N-BUTYLPHTHALATE  
DI-N-OCTYLPHTHALATE  
DIBENZO(A,H)ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHYL PHTHALATE  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE (HCB)  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE (HCCP)  
HEXACHLOROETHANE  
INDENO(1,2,3-CD)PYRENE  
ISOPHORONE  
N-NITROSODI-N-PROPYLAMINE  
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
NAPHTHALENE  
NITROBENZENE  
PENTACHLOROPHENOL  
PHENANTHRENE  
PHENOL  
PYRENE  
PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

12/18/95

**SPECIFIED ANALYSIS DATA REPORT**

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** PROJECT NO.: 96-0002 SAMPLE NO. 180 SAMPLE TYPE: SOIL **
** SOURCE: NAS PENSACOLA **          PROG ELEM: SSF   COLLECTED BY: D HUNTER **
** STATION ID: SB-T41-001 **        CITY: PENSACOLA    ST: FL      *
**                                     COLLECTION START: 10/24/95 1015 STOP: 00/00/00 **

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## \*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.